

GearÃ³id M Ã“laighin

List of Publications by Year in descending order

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177
papers

9,582
citations

47006

47
h-index

42399

92
g-index

183
all docs

183
docs citations

183
times ranked

10987
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of a threshold-based tri-axial accelerometer fall detection algorithm. <i>Gait and Posture</i> , 2007, 26, 194-199.	1.4	741
2	A review of gas sensors employed in electronic nose applications. <i>Sensor Review</i> , 2004, 24, 181-198.	1.8	657
3	Direct measurement of human movement by accelerometry. <i>Medical Engineering and Physics</i> , 2008, 30, 1364-1386.	1.7	447
4	Fall detection - Principles and Methods. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1663-6.	0.5	399
5	A threshold-based fall-detection algorithm using a bi-axial gyroscope sensor. <i>Medical Engineering and Physics</i> , 2008, 30, 84-90.	1.7	391
6	Effectiveness of a smartphone application to promote physical activity in primary care: the SMART MOVE randomised controlled trial. <i>British Journal of General Practice</i> , 2014, 64, e384-e391.	1.4	250
7	An inertial and magnetic sensor based technique for joint angle measurement. <i>Journal of Biomechanics</i> , 2007, 40, 2604-2611.	2.1	243
8	Accelerometers in rehabilitation medicine for older adults. <i>Age and Ageing</i> , 2005, 34, 556-560.	1.6	237
9	A proposal for the classification and evaluation of fall detectors. <i>Irbm</i> , 2008, 29, 340-349.	5.6	232
10	A review of portable FES-based neural orthoses for the correction of drop foot. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2002, 10, 260-279.	4.9	227
11	Behaviour change techniques targeting both diet and physical activity in type 2 diabetes: A systematic review and meta-analysis. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2017, 14, 18.	4.6	226
12	A Human-Centered Design Methodology to Enhance the Usability, Human Factors, and User Experience of Connected Health Systems: A Three-Phase Methodology. <i>JMIR Human Factors</i> , 2017, 4, e8.	2.0	211
13	A Review of Approaches to Mobility Telemonitoring of the Elderly in Their Living Environment. <i>Annals of Biomedical Engineering</i> , 2006, 34, 547-563.	2.5	204
14	Evaluation of waist-mounted tri-axial accelerometer based fall-detection algorithms during scripted and continuous unscripted activities. <i>Journal of Biomechanics</i> , 2010, 43, 3051-3057.	2.1	186
15	A description of an accelerometer-based mobility monitoring technique. <i>Medical Engineering and Physics</i> , 2005, 27, 497-504.	1.7	181
16	The past, present and future in scaffold-based tendon treatments. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 257-277.	13.7	171
17	Comparison of the performance of the activPAL [®] Professional physical activity logger to a discrete accelerometer-based activity monitor. <i>Medical Engineering and Physics</i> , 2007, 29, 930-934.	1.7	160
18	Deep learning for freezing of gait detection in Parkinson's disease patients in their homes using a waist-worn inertial measurement unit. <i>Knowledge-Based Systems</i> , 2018, 139, 119-131.	7.1	151

#	ARTICLE	IF	CITATIONS
19	The use of accelerometry to detect heel contact events for use as a sensor in FES assisted walking. <i>Medical Engineering and Physics</i> , 2003, 25, 879-885.	1.7	135
20	Home detection of freezing of gait using support vector machines through a single waist-worn triaxial accelerometer. <i>PLoS ONE</i> , 2017, 12, e0171764.	2.5	135
21	The identification of vertical velocity profiles using an inertial sensor to investigate pre-impact detection of falls. <i>Medical Engineering and Physics</i> , 2008, 30, 937-946.	1.7	129
22	Activity classification using a single chest mounted tri-axial accelerometer. <i>Medical Engineering and Physics</i> , 2011, 33, 1127-1135.	1.7	123
23	Monitoring human health behaviour in one's living environment: A technological review. <i>Medical Engineering and Physics</i> , 2014, 36, 147-168.	1.7	112
24	Inertial Sensor Technology for Elite Swimming Performance Analysis: A Systematic Review. <i>Sensors</i> , 2016, 16, 18.	3.8	100
25	Detecting freezing of gait with a tri-axial accelerometer in Parkinson's disease patients. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 223-233.	2.8	94
26	Long-term mobility monitoring of older adults using accelerometers in a clinical environment. <i>Clinical Rehabilitation</i> , 2004, 18, 335-343.	2.2	81
27	Stimulus artifact removal using a software-based two-stage peak detection algorithm. <i>Journal of Neuroscience Methods</i> , 2001, 109, 137-145.	2.5	80
28	An investigation of the effect of electrode size and electrode location on comfort during stimulation of the gastrocnemius muscle. <i>Medical Engineering and Physics</i> , 2004, 26, 873-878.	1.7	80
29	Analysis of gait and balance through a single triaxial accelerometer in presymptomatic and symptomatic Huntington's disease. <i>Gait and Posture</i> , 2013, 37, 49-54.	1.4	80
30	Effect of walking speed changes on tibialis anterior EMG during healthy gait for FES envelope design in drop foot correction. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 605-616.	1.7	74
31	CAALYX: a new generation of location-based services in healthcare. <i>International Journal of Health Geographics</i> , 2007, 6, 9.	2.5	73
32	Elderly Women Regulate Brain Blood Flow Better Than Men Do. <i>Stroke</i> , 2011, 42, 1988-1993.	2.0	73
33	The relationship between cardiac output and dynamic cerebral autoregulation in humans. <i>Journal of Applied Physiology</i> , 2010, 109, 1424-1431.	2.5	70
34	BION microstimulators: A case study in the engineering of an electronic implantable medical device. <i>Medical Engineering and Physics</i> , 2011, 33, 7-16.	1.7	64
35	Human-Centered Design Study: Enhancing the Usability of a Mobile Phone App in an Integrated Falls Risk Detection System for Use by Older Adult Users. <i>JMIR MHealth and UHealth</i> , 2017, 5, e71.	3.7	63
36	Innovations in health care services: The CAALYX system. <i>International Journal of Medical Informatics</i> , 2013, 82, e307-e320.	3.3	62

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37	Haemodynamic Study Examining the Response of Venous Blood Flow to Electrical Stimulation of the Gastrocnemius Muscle in Patients with Chronic Venous Disease. <i>European Journal of Vascular and Endovascular Surgery</i> , 2006, 31, 300-305.	1.5	61
38	A Technological Review of Wearable Cueing Devices Addressing Freezing of Gait in Parkinson's Disease. <i>Sensors</i> , 2019, 19, 1277.	3.8	60
39	Patients' experiences of using a smartphone application to increase physical activity: the SMART MOVE qualitative study in primary care. <i>British Journal of General Practice</i> , 2014, 64, e500-e508.	1.4	58
40	A pilot evaluation of a neuromuscular electrical stimulation (NMES) based methodology for the prevention of venous stasis during bed rest. <i>Medical Engineering and Physics</i> , 2010, 32, 349-355.	1.7	54
41	Human Centred Design Considerations for Connected Health Devices for the Older Adult. <i>Journal of Personalized Medicine</i> , 2014, 4, 245-281.	2.5	54
42	Testing of a long-term fall detection system incorporated into a custom vest for the elderly. , 2008, 2008, 2844-7.		53
43	Development of a Body Sensor Network to Detect Motor Patterns of Epileptic Seizures. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3204-3211.	4.2	53
44	Application of Higher Order Statistics Techniques to EMG Signals to Characterize the Motor Unit Action Potential. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1195-1209.	4.2	52
45	Diet Behavior Change Techniques in Type 2 Diabetes: A Systematic Review and Meta-analysis. <i>Diabetes Care</i> , 2017, 40, 1800-1810.	8.6	51
46	SMART MOVE - a smartphone-based intervention to promote physical activity in primary care: study protocol for a randomized controlled trial. <i>Trials</i> , 2013, 14, 157.	1.6	50
47	Rectus femoris surface myoelectric signal cross-talk during static contractions. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 564-575.	1.7	48
48	Long-term telemonitoring of mobility trends of elderly people using SMS messaging. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 412-413.	3.2	48
49	Determination of the electrical behaviour of surfactant treated polymer/carbon black composite gas sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 487-491.	7.6	47
50	An electrode configuration technique using an electrode matrix arrangement for FES-based upper arm rehabilitation systems. <i>Medical Engineering and Physics</i> , 2006, 28, 166-176.	1.7	47
51	Analysis of Correlation between an Accelerometer-Based Algorithm for Detecting Parkinsonian Gait and UPDRS Subscales. <i>Frontiers in Neurology</i> , 2017, 8, 431.	2.4	47
52	A "HOLTER" for Parkinson's disease: Validation of the ability to detect on-off states using the REMPARK system. <i>Gait and Posture</i> , 2018, 59, 1-6.	1.4	46
53	Validating a new clinical subtyping scheme for delirium with electronic motion analysis. <i>Psychiatry Research</i> , 2010, 178, 186-190.	3.3	45
54	Dopaminergic-induced dyskinesia assessment based on a single belt-worn accelerometer. <i>Artificial Intelligence in Medicine</i> , 2016, 67, 47-56.	6.5	45

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55	Analysis of swimming performance: perceptions and practices of US-based swimming coaches. <i>Journal of Sports Sciences</i> , 2016, 34, 997-1005.	2.0	45
56	The Effect of Electrical Stimulation of the Calf Muscle and Compression Stocking on Venous Blood Flow Velocity. <i>European Journal of Vascular and Endovascular Surgery</i> , 2002, 23, 564-566.	1.5	44
57	Validity of the prosthetic activity monitor to assess the duration and spatio-temporal characteristics of prosthetic walking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2004, 12, 379-386.	4.9	41
58	Assessment of waist-worn tri-axial accelerometer based fall-detection algorithms using continuous unsupervised activities. , 2010, 2010, 2782-5.		40
59	Implementing transnational telemedicine solutions: A connected health project in rural and remote areas of six Northern Periphery countries. <i>European Journal of General Practice</i> , 2013, 19, 52-58.	2.0	39
60	Finite state control of functional electrical stimulation for the rehabilitation of gait. <i>Medical and Biological Engineering and Computing</i> , 2000, 38, 121-126.	2.8	37
61	Mobility in Patients with Venous Leg Ulceration. <i>European Journal of Vascular and Endovascular Surgery</i> , 2007, 33, 488-493.	1.5	37
62	Evaluation of a single accelerometer based biofeedback system for real-time correction of neck posture in computer users. , 2009, 2009, 7269-72.		36
63	Haemodynamic performance of neuromuscular electrical stimulation (NMES) during recovery from total hip arthroplasty. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 3.	2.3	36
64	Review of the potential of a wireless MEMS and TFT microsystems for the measurement of pressure in the GI tract. <i>Medical Engineering and Physics</i> , 2005, 27, 347-356.	1.7	35
65	Rowing. <i>Sports Biomechanics</i> , 2005, 4, 179-195.	1.6	35
66	When a Step Is Not a Step! Specificity Analysis of Five Physical Activity Monitors. <i>PLoS ONE</i> , 2017, 12, e0169616.	2.5	34
67	Upper extremity rehabilitation of children with cerebral palsy using accelerometer feedback on a multitouch display. , 2010, 2010, 1751-4.		32
68	Comparing Supervised Learning Techniques on the Task of Physical Activity Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 46-52.	6.3	32
69	The development of a potential optimized stimulation intensity envelope for drop foot applications. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003, 11, 249-256.	4.9	30
70	Motion Analysis in Delirium: A Novel Method of Clarifying Motoric Subtypes. <i>Neurocase</i> , 2007, 13, 272-277.	0.6	30
71	A programmable and portable NMES device for drop foot correction and blood flow assist applications. <i>Medical Engineering and Physics</i> , 2009, 31, 400-408.	1.7	30
72	Fall-detection through vertical velocity thresholding using a tri-axial accelerometer characterized using an optical motion-capture system. , 2008, 2008, 2832-5.		29

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73	An experimental study of prescribed walking in the management of venous leg ulcers. <i>Journal of Wound Care</i> , 2012, 21, 421-430.	1.2	29
74	The effect of blood pressure calibrations and transcranial Doppler signal loss on transfer function estimates of cerebral autoregulation. <i>Medical Engineering and Physics</i> , 2011, 33, 553-562.	1.7	28
75	The Anatomy and Physiology of the Venous Foot Pump. <i>Anatomical Record</i> , 2010, 293, 370-378.	1.4	27
76	Changes in the electrical properties of the electrode-skin underlying tissue composite during a week-long programme of neuromuscular electrical stimulation. <i>Physiological Measurement</i> , 2014, 35, 231-252.	2.1	27
77	These Shoes Are Made for Walking: Sensitivity Performance Evaluation of Commercial Activity Monitors under the Expected Conditions and Circumstances Required to Achieve the International Daily Step Goal of 10,000 Steps. <i>PLoS ONE</i> , 2016, 11, e0154956.	2.5	26
78	Design and test of a long-term fall detection system incorporated into a custom vest for the elderly. , 2008, , .		25
79	Electronic stimulators for surface neural prosthesis. <i>Journal of Automatic Control</i> , 2008, 18, 25-33.	1.0	25
80	Orthostatic hypotension: a new classification system. <i>Europace</i> , 2007, 9, 937-941.	1.7	24
81	Gender related differences in cerebral autoregulation in older healthy subjects. , 2009, 2009, 2859-62.		24
82	Surface-applied functional electrical stimulation for orthotic and therapeutic treatment of drop-foot after stroke - a systematic review. <i>Physical Therapy Reviews</i> , 2009, 14, 63-80.	0.8	24
83	Patient tolerance of neuromuscular electrical stimulation (NMES) in the presence of orthopaedic implants. <i>Medical Engineering and Physics</i> , 2011, 33, 56-61.	1.7	24
84	The Use of Intermittent Pneumatic Compression in Orthopedic and Neurosurgical Postoperative Patients. <i>Annals of Surgery</i> , 2016, 263, 888-889.	4.2	24
85	A review of low-power wireless sensor microsystems for biomedical capsule diagnosis. <i>Microelectronics International</i> , 2004, 21, 8-19.	0.6	23
86	Motion analysis in delirium: A discrete approach in determining physical activity for the purpose of delirium motoric subtyping. <i>Medical Engineering and Physics</i> , 2010, 32, 101-110.	1.7	23
87	Enhancing Home Health Mobile Phone App Usability Through General Smartphone Training: Usability and Learnability Case Study. <i>JMIR Human Factors</i> , 2018, 5, e18.	2.0	23
88	Venous emptying from the foot: influences of weight bearing, toe curls, electrical stimulation, passive compression, and posture. <i>Journal of Applied Physiology</i> , 2010, 109, 1045-1052.	2.5	21
89	Parents' and healthcare professionals' perceptions of the use of live video recording in neonatal units: a focus group study. <i>BMC Pediatrics</i> , 2020, 20, 143.	1.7	21
90	Front-end signal conditioning used for resistance-based sensors in electronic nose systems: a review. <i>Sensor Review</i> , 2003, 23, 230-241.	1.8	20

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91	A system for the delivery of programmable, adaptive stimulation intensity envelopes for drop foot correction applications. <i>Medical Engineering and Physics</i> , 2006, 28, 177-186.	1.7	20
92	Hemodynamic effects of habituation to a week-long program of neuromuscular electrical stimulation. <i>Medical Engineering and Physics</i> , 2012, 34, 459-465.	1.7	20
93	Peripheral tactile sensory perception of older adults improved using subsensory electrical noise stimulation. <i>Medical Engineering and Physics</i> , 2016, 38, 822-825.	1.7	20
94	Application of Video-Based Methods for Competitive Swimming Analysis: A Systematic Review. <i>Diabetes Research (Fairfax, Va)</i> , 2015, 1, 133-150.	0.4	20
95	Evaluation of the Finis Swimsense [®] and the Garmin Swim [®] activity monitors for swimming performance and stroke kinematics analysis. <i>PLoS ONE</i> , 2017, 12, e0170902.	2.5	19
96	The design and development of a long-term fall detection system incorporated into a custom vest for the elderly.. , 2008, 2008, 2836-9.		18
97	Sensory Electrical Stimulation Cueing May Reduce Freezing of Gait Episodes in Parkinson [™] s Disease. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-6.	1.9	18
98	A review of digital data acquisition hardware and software for a portable electronic nose. <i>Sensor Review</i> , 2003, 23, 332-344.	1.8	16
99	A classification system for delirium subtyping with the use of a commercial mobility monitor. <i>Gait and Posture</i> , 2009, 30, 245-252.	1.4	16
100	A versatile drop foot stimulator for research applications. <i>Medical Engineering and Physics</i> , 2002, 24, 237-242.	1.7	15
101	Technique for the computation of lower leg muscle bulk from magnetic resonance images. <i>Medical Engineering and Physics</i> , 2010, 32, 926-933.	1.7	15
102	Comparison of Single- and Two-Channel Neuromuscular Electrical Stimulation Sites for Enhancing Venous Return. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 389-394.	4.9	15
103	Comparative lower limb hemodynamics using neuromuscular electrical stimulation (NMES) versus intermittent pneumatic compression (IPC). <i>Physiological Measurement</i> , 2014, 35, 1849-1859.	2.1	15
104	Identifying Barriers and Facilitators to Diet and Physical Activity Behaviour Change in Type 2 Diabetes Using a Design Probe Methodology. <i>Journal of Personalized Medicine</i> , 2021, 11, 72.	2.5	15
105	A preliminary study of using wireless kinematic sensors to identify basic Activities of Daily Living. , 2008, 2008, 2079-82.		14
106	Cerebral autoregulation in the vertebral and middle cerebral arteries during combine head upright tilt and lower body negative pressure in healthy humans. , 2010, 2010, 2505-8.		14
107	Optimum gravity vector and vertical acceleration estimation using a tri-axial accelerometer for falls and normal activities. , 2011, 2011, 7896-9.		14
108	A new paradigm of electrical stimulation to enhance sensory neural function. <i>Medical Engineering and Physics</i> , 2014, 36, 1088-1091.	1.7	14

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109	Does culture affect usability? A trans-European usability and user experience assessment of a falls-risk connected health system following a user-centred design methodology carried out in a single European country. <i>Maturitas</i> , 2018, 114, 22-26.	2.4	14
110	An Investigation of the Effect of Modifying Stimulation Profile Shape on the Loading Response Phase of Gait, during FES-Corrected Drop Foot: Stimulation Profile and Loading Response. <i>Neuromodulation</i> , 2004, 7, 113-125.	0.8	13
111	Estimating dyskinesia severity in Parkinson's disease by using a waist-worn sensor: concurrent validity study. <i>Scientific Reports</i> , 2019, 9, 13434.	3.3	13
112	Modified implanted drop foot stimulator system with graphical user interface for customised stimulation pulse-width profiles. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 701-709.	2.8	12
113	A Review of Technological Approaches to Venous Ulceration. <i>Critical Reviews in Biomedical Engineering</i> , 2005, 33, 511-556.	0.9	12
114	Distinguishing falls from normal ADL using vertical velocity profiles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3176-9.	0.5	11
115	A Clinical Evaluation of a Remote Mobility Monitoring System based on SMS Messaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2327-30.	0.5	11
116	An integrated fall and mobility sensor and wireless health signs monitoring system. , 2008, , .		11
117	A Continuous Wavelet Transform and Classification Method for Delirium Motoric Subtyping. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009, 17, 298-307.	4.9	11
118	A Multi-Stage Human Factors and Comfort Assessment of Instrumented Insoles Designed for Use in a Connected Health Infrastructure. <i>Journal of Personalized Medicine</i> , 2015, 5, 487-508.	2.5	11
119	Accelerometer based calf muscle pump activity monitoring. <i>Medical Engineering and Physics</i> , 2005, 27, 717-722.	1.7	10
120	Real-time low-energy fall detection algorithm with a Programmable Truncated MAC. , 2010, 2010, 2423-6.		10
121	Data logging technology in ambulatory medical instrumentation. <i>Physiological Measurement</i> , 2001, 22, R1-R13.	2.1	9
122	Pendulum Analysis of an Integrated Accelerometer to assess its suitability to measure Dynamic Acceleration for Gait Applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4891-4.	0.5	9
123	A wearable wireless platform for fall and mobility monitoring. , 2008, , .		9
124	The application of inertial and magnetic sensors to the monitoring of calf muscle pump activity. <i>Medical Engineering and Physics</i> , 2009, 31, 55-60.	1.7	9
125	A hemodynamic study of popliteal vein blood flow: The effect of bed rest and electrically elicited calf muscle contractions. , 2009, 2009, 2149-52.		9
126	Novel Interface Designs for Patient Monitoring Applications in Critical Care Medicine: Human Factors Review. <i>JMIR Human Factors</i> , 2020, 7, e15052.	2.0	9

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127	Development and evaluation of new blood pressure and heart rate signal analysis techniques to assess orthostatic hypotension and its subtypes. <i>Physiological Measurement</i> , 2007, 28, N87-N102.	2.1	7
128	Does size matter? The impact of calf muscle volume on venous return in patients with venous leg ulcers. <i>Phlebology</i> , 2007, 22, 65-69.	1.2	7
129	Detecting electroporation by assessing the time constants in the exponential response of human skin to voltage controlled impulse electrical stimulation. , 2009, 2009, 1355-8.		7
130	The age of the virtual trainer. <i>Procedia Engineering</i> , 2012, 34, 242-247.	1.2	7
131	Popliteal blood flow and plantar flexion force due to neuromuscular electrical stimulation (NMES) of the calf muscle pump are strongly associated with NMES intensity. , 2009, 2009, 3051-4.		6
132	Effect of auditory, visual and somatosensory cueing strategies on On-State Freezing of Gait in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020, 77, 1-4.	2.2	6
133	Augmenting Critical Care Patient Monitoring Using Wearable Technology: Review of Usability and Human Factors. <i>JMIR Human Factors</i> , 2021, 8, e16491.	2.0	6
134	Review of the potential of a wireless MEMS microsystem for biomedical applications. <i>Sensor Review</i> , 2005, 25, 277-286.	1.8	5
135	A new blood pressure and heart rate signal analysis technique to assess Orthostatic Hypotension and its subtypes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 935-8.	0.5	5
136	Accelerometer versus footswitch evaluation of gait unsteadiness and temporal characteristics of gait in two elderly patient groups. , 2008, 2008, 4527-30.		5
137	A haemodynamic study of the physiological mechanisms of the venous pump in the healthy human foot. , 2008, 2008, 1411-4.		5
138	Integration of a suite of sensors in a wireless health sensor platform. , 2009, , .		5
139	The Influence of orthopaedic implants on patient tolerance of neuromuscular electrical stimulation (NMES). , 2010, 2010, 5823-6.		5
140	Preliminary Evaluation of Recommended Airline Exercises for Optimal Calf Muscle Pump Activity. <i>EJVES Extra</i> , 2006, 12, 1-5.	0.1	4
141	A Programmable and Portable NMES Device for Drop Foot Correction and Blood Flow Assist Applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2416-9.	0.5	4
142	A footswitch evaluation of the gait of elderly fallers with and without a diagnosis of orthostatic hypotension and healthy elderly controls. , 2008, 2008, 5101-4.		4
143	Motion analysis in delirium: A wavelet based approach for sub classification. , 2008, 2008, 3574-7.		4
144	F17â€¦The use of an accelerometer to evaluate the performance of timed up and go test in pre-symptomatic and symptomatic huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, A28.1-A28.	1.9	4

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145	Applicability and tolerability of electrical stimulation applied to the upper and lower leg skin surface for cueing applications in Parkinson's disease. <i>Medical Engineering and Physics</i> , 2021, 87, 73-81.	1.7	4
146	A wireless platform for fall and mobility monitoring. , 2008, , .		4
147	Novel silicone-based capacitive pressure sensors with high sensitivity for biomedical applications. <i>E-Polymers</i> , 2004, 4, .	3.0	3
148	NiO-TiO/sub 2/ thick-films for detection of alcohol vapours at room temperature. , 0, , .		3
149	Tibialis anterior EMG activation pattern changes with walking speed during over ground and treadmill walking. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4883-6.	0.5	3
150	Identifying changes in human skin electrical properties due to long-term NeuroMuscular Electrical Stimulation. , 2008, 2008, 326-9.		3
151	Applications of waist segment kinematic measurement using accelerometry for an autonomous fall-detection system during continuous activities. , 2010, , .		3
152	Hemodynamic performance of NMES in the early post operative period following orthopaedic surgery. , 2011, 2011, 7630-3.		3
153	On the Application of Active Learning and Gaussian Processes in Postcryopreservation Cell Membrane Integrity Experiments. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 846-856.	3.0	3
154	New technologyâ€“based functional assessment tools should avoid the weaknesses and proliferation of manual functional assessments. <i>Journal of Clinical Epidemiology</i> , 2013, 66, 619-632.	5.0	3
155	Toward a Connected Health System for Older Adults: Lessons Learned. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 849-857.	0.6	3
156	Design of a Planner-Based Intervention to Facilitate Diet Behaviour Change in Type 2 Diabetes. <i>Sensors</i> , 2022, 22, 2795.	3.8	3
157	A Technique for the Computation of Lower Leg Muscle Volume from MRI Images in the context of Venous Return. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 951-4.	0.5	2
158	The effect of surface neuromuscular electrical stimulation and compression hosiery applied to the lower limb, on the comfort and blood flow of healthy subjects. , 2008, 2008, 703-6.		2
159	Double-Tap Interaction as an Actuation Mechanism for On-Demand Cueing in Parkinsonâ€™s Disease. <i>Sensors</i> , 2019, 19, 5167.	3.8	2
160	Multifaceted Sensory Electrical Stimulation cueing for Freezing of Gait in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2021, 82, 106-108.	2.2	2
161	Doppler ultrasound measurements of venous return in the popliteal vein. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 978-81.	0.5	1
162	Assessment of techniques used to evaluate the effect of posture and cardiac output on Cerebral Autoregulation. , 2008, 2008, 1992-5.		1

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163	Identifying skin electrical properties using a standard neuromuscular electrical stimulation voltage pulse. , 2008, , .		1
164	Comparison of the Hemodynamic Performance of Two Neuromuscular Electrical Stimulation Devices Applied to the Lower Limb. Journal of Personalized Medicine, 2020, 10, 36.	2.5	1
165	Prototyping a User Interface for a New Sepsis Risk Decision Support System Using Participatory Design. Advances in Intelligent Systems and Computing, 2019, , 242-248.	0.6	1
166	Royal academy of medicine in Ireland section of bioengineering. Irish Journal of Medical Science, 1998, 167, 256-276.	1.5	0
167	The application of a use case/task based approach in the development of software for a portable neuromuscular stimulator device. Medical Engineering and Physics, 2007, 29, 765-774.	1.7	0
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