

Malcolm H Granat

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,598
citations

147801

31
h-index

102487

66
g-index

80
all docs

80
docs citations

80
times ranked

5940
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Scale Population Assessment of Physical Activity Using Wrist Worn Accelerometers: The UK Biobank Study. <i>PLoS ONE</i> , 2017, 12, e0169649.	2.5	654
2	A practical gait analysis system using gyroscopes. <i>Medical Engineering and Physics</i> , 1999, 21, 87-94.	1.7	392
3	MRI Fuzzy Segmentation of Brain Tissue Using Neighborhood Attraction With Neural-Network Optimization. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2005, 9, 459-467.	3.2	304
4	Electrical Stimulation of Wrist Extensors in Poststroke Hemiplegia. <i>Stroke</i> , 1999, 30, 1384-1389.	2.0	297
5	Activity-Monitor Accuracy in Measuring Step Number and Cadence in Community-Dwelling Older Adults. <i>Journal of Aging and Physical Activity</i> , 2008, 16, 201-214.	1.0	222
6	Utilization and Harmonization of Adult Accelerometry Data. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2129-2139.	0.4	222
7	Sitting patterns at work: objective measurement of adherence to current recommendations. <i>Ergonomics</i> , 2011, 54, 531-538.	2.1	183
8	Prevention of Shoulder Subluxation After Stroke With Electrical Stimulation. <i>Stroke</i> , 1999, 30, 963-968.	2.0	133
9	Peroneal stimulator: Evaluation for the correction of spastic drop foot in hemiplegia. <i>Archives of Physical Medicine and Rehabilitation</i> , 1996, 77, 19-24.	0.9	121
10	Pain biology education and exercise classes compared to pain biology education alone for individuals with chronic low back pain: A pilot randomised controlled trial. <i>Manual Therapy</i> , 2010, 15, 382-387.	1.6	113
11	Functional electric stimulation to augment partial weight-bearing supported treadmill training for patients with acute incomplete spinal cord injury: a pilot study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 604-610.	0.9	99
12	Increasing older adults' walking through primary care: results of a pilot randomized controlled trial. <i>Family Practice</i> , 2012, 29, 633-642.	1.9	93
13	Validity, Practical Utility, and Reliability of the activPAL [®] in Preschool Children. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 761-768.	0.4	87
14	Physical Behavior and Function Early After Hip Fracture Surgery in Patients Receiving Comprehensive Geriatric Care or Orthopedic Care--A Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69A, 338-345.	3.6	84
15	Effects of electrical stimulation on flexion contractures in the hemiplegic wrist. <i>Clinical Rehabilitation</i> , 1997, 11, 123-130.	2.2	81
16	Continuous monitoring of upper-limb activity in a free-living environment. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 541-548.	0.9	79
17	The pattern of habitual sedentary behavior is different in advanced Parkinson's disease. <i>Movement Disorders</i> , 2010, 25, 2114-2120.	3.9	71
18	Individuals with chronic low back pain have a lower level, and an altered pattern, of physical activity compared with matched controls: an observational study. <i>Australian Journal of Physiotherapy</i> , 2009, 55, 53-58.	0.9	67

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19	A physically active occupation does not result in compensatory inactivity during out-of-work hours. <i>Preventive Medicine</i> , 2011, 53, 48-52.	3.4	63
20	A new method of using heart rate to represent energy expenditure: The Total Heart Beat Index. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 1266-1273.	0.9	61
21	Technology for monitoring everyday prosthesis use: a systematic review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 93.	4.6	52
22	Emerging collaborative research platforms for the next generation of physical activity, sleep and exercise medicine guidelines: the Prospective Physical Activity, Sitting, and Sleep consortium (ProPASS). <i>British Journal of Sports Medicine</i> , 2020, 54, 435-437.	6.7	51
23	Analyzing Free-Living Physical Activity of Older Adults in Different Environments Using Body-Worn Activity Monitors. <i>Journal of Aging and Physical Activity</i> , 2010, 18, 171-184.	1.0	49
24	Effect of functional electrical stimulation, applied during walking, on gait in spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2007, 47, 46-52.	2.1	46
25	A knee and ankle flexing hybrid orthosis for paraplegic ambulation. <i>Medical Engineering and Physics</i> , 2003, 25, 539-545.	1.7	45
26	Compliance with physical activity guidelines in a group of UK-based postal workers using an objective monitoring technique. <i>European Journal of Applied Physiology</i> , 2009, 106, 893-899.	2.5	43
27	Methods for the Real-World Evaluation of Fall Detection Technology: A Scoping Review. <i>Sensors</i> , 2018, 18, 2060.	3.8	43
28	Event-based analysis of free-living behaviour. <i>Physiological Measurement</i> , 2012, 33, 1785-1800.	2.1	42
29	Evidence for a human spinal stepping generator. <i>Brain Research</i> , 1995, 684, 230-232.	2.2	41
30	Thigh-worn accelerometry for measuring movement and posture across the 24-hour cycle: a scoping review and expert statement. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000874.	2.9	39
31	Virtual artificial sensor technique for functional electrical stimulation. <i>Medical Engineering and Physics</i> , 1998, 20, 458-468.	1.7	34
32	Characteristics of a Protocol to Collect Objective Physical Activity/Sedentary Behavior Data in a Large Study: Seniors USP (Understanding Sedentary Patterns). <i>Journal for the Measurement of Physical Behaviour</i> , 2018, 1, 26-31.	0.8	34
33	Assessment of the potential iridology for diagnosing kidney disease using wavelet analysis and neural networks. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 534-541.	5.7	31
34	Differentiating Sitting and Lying Using a Thigh-Worn Accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 742-747.	0.4	30
35	Total Hip Arthroplasty Improves Pain and Function but Not Physical Activity. <i>Journal of Arthroplasty</i> , 2017, 32, 2191-2198.	3.1	30
36	Objective Measurement of Habitual Sedentary Behavior in Pre-School Children: Comparison of Activpal With Actigraph Monitors. <i>Pediatric Exercise Science</i> , 2011, 23, 468-476.	1.0	29

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37	Quantifying the cadence of free-living walking using event-based analysis. <i>Gait and Posture</i> , 2015, 42, 85-90.	1.4	29
38	Measuring postural physical activity in people with chronic low back pain. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2008, 21, 43-50.	1.1	28
39	The long-term effect of being treated in a geriatric ward compared to an orthopaedic ward on six measures of free-living physical behavior 4 and 12 months after a hip fracture - a randomised controlled trial. <i>BMC Geriatrics</i> , 2015, 15, 160.	2.7	28
40	Measuring the Actual Levels and Patterns of Physical Activity/Inactivity of Adults with Intellectual Disabilities. <i>Journal of Applied Research in Intellectual Disabilities</i> , 2011, 24, 508-517.	2.0	27
41	What Do Older People Do When Sitting and Why? Implications for Decreasing Sedentary Behavior. <i>Gerontologist</i> , The, 2019, 59, 686-697.	3.9	26
42	Effect of functional electrical stimulation, applied during walking, on gait in spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2005, 47, 46-52.	2.1	25
43	A three arm cluster randomised controlled trial to test the effectiveness and cost-effectiveness of the SMART Work & Life intervention for reducing daily sitting time in office workers: study protocol. <i>BMC Public Health</i> , 2018, 18, 1120.	2.9	25
44	Effects of home versus hospital-based exercise training in chronic heart failure. <i>International Journal of Cardiology</i> , 2012, 158, 296-298.	1.7	24
45	Quantifying sit-to-stand and stand-to-sit transitions in free-living environments using the activPAL thigh-worn activity monitor. <i>Gait and Posture</i> , 2019, 73, 140-146.	1.4	24
46	True cadence and step accumulation are not equivalent: The effect of intermittent claudication on free-living cadence. <i>Gait and Posture</i> , 2015, 41, 414-419.	1.4	21
47	Visualisation of upper limb activity using spirals. <i>Prosthetics and Orthotics International</i> , 2018, 42, 37-44.	1.0	20
48	Evaluation of patterned stimulation for use in surface functional electrical stimulation systems. <i>Medical Engineering and Physics</i> , 1998, 20, 319-324.	1.7	18
49	Demand for and Use of Functional Electrical Stimulation Systems and Conventional Orthoses in the Spinal Lesioned Community of the UK. <i>Artificial Organs</i> , 1999, 23, 410-412.	1.9	18
50	Randomised controlled trial of electrical stimulation of the quadriceps after proximal femoral fracture. <i>Aging Clinical and Experimental Research</i> , 2008, 20, 62-66.	2.9	18
51	The convergent validity of free-living physical activity monitoring as an outcome measure of functional ability in people with chronic low back pain. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2008, 21, 137-142.	1.1	18
52	The relationship between psychological distress and free-living physical activity in individuals with chronic low back pain. <i>Manual Therapy</i> , 2010, 15, 185-189.	1.6	18
53	Are older people putting themselves at risk when using their walking frames?. <i>BMC Geriatrics</i> , 2020, 20, 90.	2.7	18
54	Exploring occupational standing activities using accelerometer-based activity monitoring. <i>Ergonomics</i> , 2019, 62, 1055-1065.	2.1	15

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55	A combination of Botulinum Toxin A therapy and Functional Electrical Stimulation in children with cerebral palsy – A pilot study. <i>Technology and Health Care</i> , 2012, 20, 1-9.	1.2	12
56	A multicenter randomized controlled trial comparing gamification with remote monitoring against standard rehabilitation for patients after arthroscopic shoulder surgery. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 8-16.	2.6	12
57	Mobility Activity of Stroke Patients During Inpatient Rehabilitation. <i>Hong Kong Physiotherapy Journal</i> , 2006, 24, 8-15.	1.0	11
58	Attending a workplace: its contribution to volume and intensity of physical activity. <i>Physiological Measurement</i> , 2016, 37, 2144-2153.	2.1	11
59	Effects of Electrical Stimulation on the Wrist of Hemiplegic Subjects. <i>Physiotherapy</i> , 1996, 82, 184-188.	0.4	10
60	Upper limb activity of twenty myoelectric prosthesis users and twenty healthy anatomically intact adults. <i>Scientific Data</i> , 2019, 6, 199.	5.3	10
61	Empirically derived cut-points for sedentary behaviour: are we sitting differently?. <i>Physiological Measurement</i> , 2016, 37, 1669-1685.	2.1	8
62	A Machine Learning Classification Model for Monitoring the Daily Physical Behaviour of Lower-Limb Amputees. <i>Sensors</i> , 2021, 21, 7458.	3.8	8
63	Quantification of Outdoor Mobility by Use of Accelerometer-Measured Physical Behaviour. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	6
64	Physical Activity and Cardiac Self-Efficacy Levels During Early Recovery After Acute Myocardial Infarction: A Jordanian Study. <i>The Journal of Nursing Research: JNR</i> , 2021, 29, e131.	1.7	6
65	Visualization of Sedentary Behavior Using an Event-Based Approach. <i>Measurement in Physical Education and Exercise Science</i> , 2015, 19, 148-157.	1.8	5
66	A cross-cultural translation and adaptation of the Arabic Cardiac Self-Efficacy Questionnaire for patients with coronary heart disease. <i>International Journal of Nursing Practice</i> , 2020, 26, e12827.	1.7	5
67	Does free-living physical activity improve one-year following total knee arthroplasty in patients with osteoarthritis: A prospective study. <i>Osteoarthritis and Cartilage Open</i> , 2020, 2, 100065.	2.0	5
68	Responsiveness, Reliability, and Validity of Arabic Version of Oxford Knee Score for Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e89.	3.0	5
69	Functional electrical stimulation and rehabilitation. <i>Current Opinion in Orthopaedics</i> , 1994, 5, 90-95.	0.3	4
70	Estimating changes in physical behavior during lockdowns using accelerometry-based simulations in a large UK cohort. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 2221-2229.	2.9	3
71	Objective assessment of intensity categorization of the previous day physical activity recall questionnaire in 11-13-year old children. <i>Physiological Measurement</i> , 2014, 35, 2329-2342.	2.1	2
72	Incorporating an exercise rehabilitation programme for people with intermittent claudication into an established cardiac rehabilitation service: A protocol for a pilot study. <i>Contemporary Clinical Trials Communications</i> , 2019, 15, 100389.	1.1	2

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73	Week and Weekend Day Cadence Patterns Long-Term Post-Bariatric Surgery. <i>Obesity Surgery</i> , 2019, 29, 3271-3276.	2.1	2
74	Measuring Foot Abduction Brace Wear Time Using a Single 3-Axis Accelerometer. <i>Sensors</i> , 2022, 22, 2433.	3.8	2
75	Concurrent Measurement of Global Positioning System and Event-Based Physical Activity Data: A Methodological Framework for Integration. <i>Journal for the Measurement of Physical Behaviour</i> , 2021, 4, 9-22.	0.8	1
76	Artificial Neural Network Control on Functional Electrical Stimulation Assisted Gait for Persons with Spinal Cord Injury. <i>Perspectives in Neural Computing</i> , 2000, , 181-193.	0.1	1
77	The Contribution of Commuting to Total Daily Moderate-to-Vigorous Physical Activity. <i>Journal for the Measurement of Physical Behaviour</i> , 2020, 3, 189-196.	0.8	1
78	Defining Continuous Walking Events in Free-Living Environments: Mind the Gap. <i>Sensors</i> , 2022, 22, 1720.	3.8	1
79	Functional electrical stimulation and hybrid orthosis systems. <i>Current Opinion in Orthopaedics</i> , 1993, 4, 105-109.	0.3	0
80	Differentiating Lying Down From Sitting Using A Single Activpal3 Monitor. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 270.	0.4	0