Jacek K Urbanek

List of Publications by Year
in descending order

52 papers	1,441 citations	361296 20 h-index	345118 36 g-index
54 all docs	54 docs citations	54 times ranked	1343 citing authors

#	Article	IF	Citations
1	Daily steps and all-cause mortality: a meta-analysis of 15 international cohorts. Lancet Public Health, The, 2022, 7, e219-e228.	4.7	189
2	Diagnostics of bearings in presence of strong operating conditions non-stationarity—A procedure of load-dependent features processing with application to wind turbine bearings. Mechanical Systems and Signal Processing, 2014, 46, 16-27.	4.4	145
3	A two-step procedure for estimation of instantaneous rotational speed with large fluctuations. Mechanical Systems and Signal Processing, 2013, 38, 96-102.	4.4	140
4	Re-evaluating the effect of age on physical activity over the lifespan. Preventive Medicine, 2017, 101, 102-108.	1.6	88
5	Application of averaged instantaneous power spectrum for diagnostics of machinery operating under non-stationary operational conditions. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1782-1791.	2.5	76
6	Accelerometry Data in Health Research: Challenges and Opportunities. Statistics in Biosciences, 2019, 11, 210-237.	0.6	69
7	Association of Total Daily Physical Activity and Fragmented Physical Activity With Mortality in Older Adults. JAMA Network Open, 2019, 2, e1912352.	2.8	65
8	Time–frequency approach to extraction of selected second-order cyclostationary vibration components for varying operational conditions. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1454-1463.	2.5	58
9	Organizing and Analyzing the Activity Data in NHANES. Statistics in Biosciences, 2019, 11, 262-287.	0.6	57
10	Detection of signal component modulations using modulation intensity distribution. Mechanical Systems and Signal Processing, 2012, 28, 399-413.	4.4	49
11	The Predictive Performance of Objective Measures of Physical Activity Derived From Accelerometry Data for 5-Year All-Cause Mortality in Older Adults: National Health and Nutritional Examination Survey 2003–2006. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1779-1785.	1.7	46
12	Validation of Gait Characteristics Extracted From Raw Accelerometry During Walking Against Measures of Physical Function, Mobility, Fatigability, and Fitness. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 676-681.	1.7	35
13	Epidemiology of objectively measured bedtime and chronotype in US adolescents and adults: NHANES 2003–2006. Chronobiology International, 2018, 35, 416-434.	0.9	35
14	Normalization of vibration signals generated under highly varying speed and load with application to signal separation. Mechanical Systems and Signal Processing, 2017, 82, 13-31.	4.4	28
15	Moderate-to-Vigorous Physical Activity Is Associated With Higher Muscle Oxidative Capacity in Older Adults. Journal of the American Geriatrics Society, 2019, 67, 1695-1699.	1.3	27
16	Joint and Individual Representation of Domains of Physical Activity, Sleep, and Circadian Rhythmicity. Statistics in Biosciences, 2019, 11, 371-402.	0.6	27
17	Interpreting blood GLUcose data with R package iglu. PLoS ONE, 2021, 16, e0248560.	1.1	27
18	Integrated modulation intensity distribution as a practical tool for condition monitoring. Applied Acoustics, 2014, 77, 184-194.	1.7	24

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19	Prediction of sustained harmonic walking in the free-living environment using raw accelerometry data. Physiological Measurement, 2018, 39, 02NT02.	1.2	23
20	HIV Infection Is Associated With Variability in Ventricular Repolarization. Circulation, 2020, 141, 176-187.	1.6	22
21	Stride variability measures derived from wrist- and hip-worn accelerometers. Gait and Posture, 2017, 52, 217-223.	0.6	19
22	Total volume of physical activity: TAC, TLAC or TAC(λ). Preventive Medicine, 2018, 106, 233-235.	1.6	19
23	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 2194-2203.	1.7	16
24	Wind Turbine Main Bearing Diagnosis - A Proposal of Data Processing and Decision Making Procedure under Non Stationary Load Condition. Key Engineering Materials, 2012, 518, 437-444.	0.4	15
25	Associations of Actigraphic Sleep Parameters With Fatigability in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, e95-e102.	1.7	15
26	Parent–child relationship quality and sleep among adolescents: modification by race/ethnicity. Sleep Health, 2020, 6, 145-152.	1.3	15
27	Adaptive empirical pattern transformation (ADEPT) with application to walking stride segmentation. Biostatistics, 2021, 22, 331-347.	0.9	15
28	Longitudinal Association Between Perceived Fatigability and Cognitive Function in Older Adults: Results from the Baltimore Longitudinal Study of Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, e67-e73.	1.7	12
29	Objectively Measured Patterns of Daily Physical Activity and Phenotypic Frailty. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1882-1889.	1.7	12
30	Bearings Fault Detection in Gas Compressor in Presence of High Level of Non-Gaussian Impulsive Noise. Key Engineering Materials, 0, 569-570, 473-480.	0.4	11
31	Application of angular–temporal spectrum to exploratory analysis of generalized angular–temporal deterministic signals. Applied Acoustics, 2016, 109, 27-36.	1.7	8
32	Estimation of free-living walking cadence from wrist-worn sensor accelerometry data and its association with SF-36 quality of life scores. Physiological Measurement, 2021, 42, 065006.	1.2	8
33	Habitual physical activity patterns in a nationally representative sample of U.S. adults. Translational Behavioral Medicine, 2021, 11, 332-341.	1.2	7
34	Free-Living Gait Cadence Measured by Wearable Accelerometer: A Promising Alternative to Traditional Measures of Mobility for Assessing Fall Risk. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2023, 78, 802-810.	1.7	7
35	Smartphone-Based Gait Cadence to Identify Older Adults with Decreased Functional Capacity. Digital Biomarkers, 2022, 6, 61-70.	2.2	7
36	Age-Related Bias in Total Step Count Recorded by Wearable Devices. JAMA Internal Medicine, 2019, 179, 1602.	2.6	6

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37	Daily Physical Activity Patterns as a Window on Cognitive Diagnosis in the Baltimore Longitudinal Study of Aging (BLSA). Journal of Alzheimer's Disease, 2022, 88, 459-469.	1.2	5
38	Differentiating Between Walking and Stair Climbing Using Raw Accelerometry Data. Statistics in Biosciences, 2019, 11, 334-354.	0.6	4
39	Joint Power-Speed Representation of Vibration Features. Application to Wind Turbine Planetary Gearbox. Lecture Notes in Mechanical Engineering, 2014, , 197-205.	0.3	3
40	Free-living wrist and hip accelerometry forecast cognitive decline among older adults without dementia over 1- or 5-years in two distinct observational cohorts. , 2022, 8, .		2
41	Use of Functional Linear Models to Detect Associations between Characteristics of Walking and Continuous Responses Using Accelerometry Data. Sensors, 2020, 20, 6394.	2.1	1
42	Daily Physical Activity Patterns: A Window on Cognitive Decline in the Baltimore Longitudinal Study of Aging (BLSA). Innovation in Aging, 2021, 5, 445-445.	0.0	1
43	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. Innovation in Aging, 2021, 5, 335-335.	0.0	1
44	CRITICAL ASPECTS OF MOBILITY FOR IMPROVING PATIENT OUTCOMES AFTER CARDIAC SURGERY. Innovation in Aging, 2019, 3, S472-S472.	0.0	0
45	THE ASSOCIATION BETWEEN MODERATE-TO-VIGOROUS PHYSICAL ACTIVITY AND MUSCLE OXIDATIVE CAPACITY IN OLDER ADULTS. Innovation in Aging, 2019, 3, S84-S85.	0.0	0
46	163 Actigraphy-measured circadian factors and mortality in US adults: Results from the NHANES. Sleep, 2021, 44, A66-A67.	0.6	0
47	RADVis: A Software Tool for the Visual Investigation of Raw Accelerometry Data. Journal for the Measurement of Physical Behaviour, 2018, 1, 191-196.	0.5	0
48	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. Innovation in Aging, 2021, 5, 337-337.	0.0	0
49	Collection of free-living accelerometry data in large clinical studies before and during the COVID-19 pandemic. Innovation in Aging, 2021, 5, 996-996.	0.0	0
50	Hip Accelerometry Activity Patterns Improve Machine Learning Prediction of 1-Year MoCA Score Change. Innovation in Aging, 2021, 5, 444-444.	0.0	0
51	Free-Living Gait Cadence Measured by Wearable Accelerometers for Assessing Fall Risk. Innovation in Aging, 2021, 5, 336-336.	0.0	0
52	Detecting a Novel Walking-Based Performance Fatigability Marker With Accelerometry in Older Adults. Innovation in Aging, 2021, 5, 335-336.	0.0	0