

# Jacek K Urbanek

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Free-Living Gait Cadence Measured by Wearable Accelerometer: A Promising Alternative to Traditional Measures of Mobility for Assessing Fall Risk. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2023, 78, 802-810.	1.7	7
2	Objectively Measured Patterns of Daily Physical Activity and Phenotypic Frailty. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1882-1889.	1.7	12
3	Daily steps and all-cause mortality: a meta-analysis of 15 international cohorts. <i>Lancet Public Health</i> , 2022, 7, e219-e228.	4.7	189
4	Daily Physical Activity Patterns as a Window on Cognitive Diagnosis in the Baltimore Longitudinal Study of Aging (BLSA). <i>Journal of Alzheimer's Disease</i> , 2022, 88, 459-469.	1.2	5
5	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
6	Smartphone-Based Gait Cadence to Identify Older Adults with Decreased Functional Capacity. <i>Digital Biomarkers</i> , 2022, 6, 61-70.	2.2	7
7	Habitual physical activity patterns in a nationally representative sample of U.S. adults. <i>Translational Behavioral Medicine</i> , 2021, 11, 332-341.	1.2	7
8	Adaptive empirical pattern transformation (ADEPT) with application to walking stride segmentation. <i>Biostatistics</i> , 2021, 22, 331-347.	0.9	15
9	Interpreting blood GLUcose data with R package iglu. <i>PLoS ONE</i> , 2021, 16, e0248560.	1.1	27
10	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 2194-2203.	1.7	16
11	163 Actigraphy-measured circadian factors and mortality in US adults: Results from the NHANES. <i>Sleep</i> , 2021, 44, A66-A67.	0.6	0
12	Estimation of free-living walking cadence from wrist-worn sensor accelerometry data and its association with SF-36 quality of life scores. <i>Physiological Measurement</i> , 2021, 42, 065006.	1.2	8
13	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. <i>Innovation in Aging</i> , 2021, 5, 337-337.	0.0	0
14	Daily Physical Activity Patterns: A Window on Cognitive Decline in the Baltimore Longitudinal Study of Aging (BLSA). <i>Innovation in Aging</i> , 2021, 5, 445-445.	0.0	1
15	Visual Impairment and Objectively Measured Physical Activity in Middle-Aged and Older Adults. <i>Innovation in Aging</i> , 2021, 5, 335-335.	0.0	1
16	Collection of free-living accelerometry data in large clinical studies before and during the COVID-19 pandemic. <i>Innovation in Aging</i> , 2021, 5, 996-996.	0.0	0
17	Hip Accelerometry Activity Patterns Improve Machine Learning Prediction of 1-Year MoCA Score Change. <i>Innovation in Aging</i> , 2021, 5, 444-444.	0.0	0
18	Free-Living Gait Cadence Measured by Wearable Accelerometers for Assessing Fall Risk. <i>Innovation in Aging</i> , 2021, 5, 336-336.	0.0	0

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19	Detecting a Novel Walking-Based Performance Fatigability Marker With Accelerometry in Older Adults. <i>Innovation in Aging</i> , 2021, 5, 335-336.	0.0	0
20	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 2003â€”2006. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1779-1785.	1.7	46
21	HIV Infection Is Associated With Variability in Ventricular Repolarization. <i>Circulation</i> , 2020, 141, 176-187.	1.6	22
22	Longitudinal Association Between Perceived Fatigability and Cognitive Function in Older Adults: Results from the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, e67-e73.	1.7	12
23	Use of Functional Linear Models to Detect Associations between Characteristics of Walking and Continuous Responses Using Accelerometry Data. <i>Sensors</i> , 2020, 20, 6394.	2.1	1
24	Associations of Actigraphic Sleep Parameters With Fatigability in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, e95-e102.	1.7	15
25	Parentâ€”child relationship quality and sleep among adolescents: modification by race/ethnicity. <i>Sleep Health</i> , 2020, 6, 145-152.	1.3	15
26	Age-Related Bias in Total Step Count Recorded by Wearable Devices. <i>JAMA Internal Medicine</i> , 2019, 179, 1602.	2.6	6
27	Association of Total Daily Physical Activity and Fragmented Physical Activity With Mortality in Older Adults. <i>JAMA Network Open</i> , 2019, 2, e1912352.	2.8	65
28	Moderateâ€”toâ€”Vigorous Physical Activity Is Associated With Higher Muscle Oxidative Capacity in Older Adults. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 1695-1699.	1.3	27
29	Differentiating Between Walking and Stair Climbing Using Raw Accelerometry Data. <i>Statistics in Biosciences</i> , 2019, 11, 334-354.	0.6	4
30	Joint and Individual Representation of Domains of Physical Activity, Sleep, and Circadian Rhythmicity. <i>Statistics in Biosciences</i> , 2019, 11, 371-402.	0.6	27
31	Organizing and Analyzing the Activity Data in NHANES. <i>Statistics in Biosciences</i> , 2019, 11, 262-287.	0.6	57
32	Accelerometry Data in Health Research: Challenges and Opportunities. <i>Statistics in Biosciences</i> , 2019, 11, 210-237.	0.6	69
33	CRITICAL ASPECTS OF MOBILITY FOR IMPROVING PATIENT OUTCOMES AFTER CARDIAC SURGERY. <i>Innovation in Aging</i> , 2019, 3, S472-S472.	0.0	0
34	THE ASSOCIATION BETWEEN MODERATE-TO-VIGOROUS PHYSICAL ACTIVITY AND MUSCLE OXIDATIVE CAPACITY IN OLDER ADULTS. <i>Innovation in Aging</i> , 2019, 3, S84-S85.	0.0	0
35	Prediction of sustained harmonic walking in the free-living environment using raw accelerometry data. <i>Physiological Measurement</i> , 2018, 39, 02NT02.	1.2	23
36	Validation of Gait Characteristics Extracted From Raw Accelerometry During Walking Against Measures of Physical Function, Mobility, Fatigability, and Fitness. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 676-681.	1.7	35

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37	Total volume of physical activity: TAC, TLAC or TAC( $\hat{\lambda}$ ). Preventive Medicine, 2018, 106, 233-235.	1.6	19
38	Epidemiology of objectively measured bedtime and chronotype in US adolescents and adults: NHANES 2003â€“2006. Chronobiology International, 2018, 35, 416-434.	0.9	35
39	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
40	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
41	Stride variability measures derived from wrist- and hip-worn accelerometers. Gait and Posture, 2017, 52, 217-223.	0.6	19
42	Re-evaluating the effect of age on physical activity over the lifespan. Preventive Medicine, 2017, 101, 102-108.	1.6	88
43	Application of angularâ€“temporal spectrum to exploratory analysis of generalized angularâ€“temporal deterministic signals. Applied Acoustics, 2016, 109, 27-36.	1.7	8
44	Diagnostics of bearings in presence of strong operating conditions non-stationarityâ€“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
45	Joint Power-Speed Representation of Vibration Features. Application to Wind Turbine Planetary Gearbox. Lecture Notes in Mechanical Engineering, 2014, , 197-205.	0.3	3
46	Integrated modulation intensity distribution as a practical tool for condition monitoring. Applied Acoustics, 2014, 77, 184-194.	1.7	24
47	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
48	Timeâ€“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
49	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
50	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
51	Detection of signal component modulations using modulation intensity distribution. Mechanical Systems and Signal Processing, 2012, 28, 399-413.	4.4	49
52	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