Vadim Zipunnikov

List of Publications by Year
in descending order

96	3,345	145106	198040
papers	citations	33 h-index	52 g-index

101	101	101	5215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Registration of 24-hour accelerometric rest-activity profiles and its application to human chronotypes. Biological Rhythm Research, 2022, 53, 1299-1319.	0.4	4
2	Actigraphy-estimated physical activity is associated with functional and structural brain connectivity among older adults. Neurobiology of Aging, 2022, 116, 32-40.	1.5	6
3	Scalar on time-by-distribution regression and its application for modelling associations between daily-living physical activity and cognitive functions in Alzheimerâ€™s Disease. Scientific Reports, 2022, 12, .	1.6	5
4	Real-time monitoring of cannabis and prescription opioid co-use patterns, analgesic effectiveness, and the opioid-sparing effect of cannabis in individuals with chronic pain. Journal of Pain, 2022, , .	0.7	1
5	Association Between Brain Volumes and Patterns of Physical Activity in Community-Dwelling Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1504-1511.	1.7	14
6	Fitâ€forâ€Purpose Biometric Monitoring Technologies: Leveraging the Laboratory Biomarker Experience. Clinical and Translational Science, 2021, 14, 62-74.	1.5	28
7	Remote Digital Monitoring for Medical Product Development. Clinical and Translational Science, 2021, 14, 94-101.	1.5	14
8	Continuous gait monitoring discriminates communityâ€dwelling mild Alzheimer's disease from cognitively normal controls. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12131.	1.8	14
9	Sociodemographic, Health and Lifestyle, Sampling, and Mental Health Determinants of 24-Hour Motor Activity Patterns: Observational Study. Journal of Medical Internet Research, 2021, 23, e20700.	2.1	11
10	Personality and insomnia symptoms in older adults: the Baltimore Longitudinal Study of Aging. Sleep, 2021, 44, .	0.6	6
11	Associations of actigraphic sleep and circadian rest/activity rhythms with cognition in the early phase of Alzheimerâ€™s disease. SLEEP Advances, 2021, 2, zpab007.	0.1	13
12	Remote Cardiac Safety Monitoring through the Lens of the FDA Biomarker Qualification Evidentiary Criteria Framework: A Case Study Analysis. Digital Biomarkers, 2021, 5, 103-113.	2.2	5
13	045 Associations of Actigraphic Sleep and Circadian Rest/Activity Rhythms with Cognition in the Early Phase of Alzheimerâ€™s Disease. Sleep, 2021, 44, A19-A20.	0.6	0
14	Association Between Walking Energetics and Fragmented Physical Activity in Mid- to Late-Life. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, e281-e289.	1.7	3
15	163 Actigraphy-measured circadian factors and mortality in US adults: Results from the NHANES. Sleep, 2021, 44, A66-A67.	0.6	0
16	Epidemiology Of Physical Activity Patterns From Wrist-worn Accelerometry In The Baltimore Longitudinal Study Of Aging. Medicine and Science in Sports and Exercise, 2021, 53, 195-195.	0.2	0
17	Brain amyloid burden, sleep, and 24-hour rest/activity rhythms: screening findings from the Anti-Amyloid Treatment in Asymptomatic Alzheimerâ€™s and Longitudinal Evaluation of Amyloid Risk and Neurodegeneration Studies. SLEEP Advances, 2021, 2, zpab015.	0.1	9
18	Circadian Rest and Activity Rhythms and Cognitive Change in the Baltimore Longitudinal Study of Aging. Innovation in Aging, 2021, 5, 444-444.	0.0	0

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19	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. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1779-1785.	1.7	46
20	Methods for Step Count Data: Determining â€œValidâ€•Days and Quantifying Fragmentation of Walking Bouts. Gait and Posture, 2020, 81, 205-212.	0.6	2
21	The Science of Complex Systems Is Needed to Ameliorate the Impacts of COVID-19 on Mental Health. Frontiers in Psychiatry, 2020, 11, 606035.	1.3	10
22	Circadian rhythm disturbance in agitation of Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e038478.	0.4	0
23	Measuring circadian function in bipolar disorders: Empirical and conceptual review of physiological, actigraphic, and selfâ€report approaches. Bipolar Disorders, 2020, 22, 693-710.	1.1	49
24	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
25	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. Radiology, 2020, 295, 171-180.	3.6	31
26	Longitudinal Association Between Energy Regulation and Fatigability in Mid-to-Late Life. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, e74-e80.	1.7	15
27	Perfusion Pressure Lacks Diagnostic Specificity for the Diagnosis of Acute Compartment Syndrome. Journal of Orthopaedic Trauma, 2020, 34, 287-293.	0.7	17
28	Multilevel Matrix-Variate Analysis and its Application to Accelerometry-Measured Physical Activity in Clinical Populations. Journal of the American Statistical Association, 2019, 114, 553-564.	1.8	6
29	The association between accelerometer-assessed physical activity and respiratory function in older adults differs between smokers and non-smokers. Scientific Reports, 2019, 9, 10270.	1.6	7
30	Association of Total Daily Physical Activity and Fragmented Physical Activity With Mortality in Older Adults. JAMA Network Open, 2019, 2, e1912352.	2.8	65
31	Joint and Individual Representation of Domains of Physical Activity, Sleep, and Circadian Rhythmicity. Statistics in Biosciences, 2019, 11, 371-402.	0.6	27
32	Variable-Domain Functional Principal Component Analysis. Journal of Computational and Graphical Statistics, 2019, 28, 993-1006.	0.9	4
33	0284 Personality Traits, Insomnia Symptoms and Daytime Sleepiness in Older Adults. Sleep, 2019, 42, A115-A116.	0.6	0
34	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. NeuroImage, 2019, 191, 537-548.	2.1	76
35	Organizing and Analyzing the Activity Data in NHANES. Statistics in Biosciences, 2019, 11, 262-287.	0.6	57
36	Accelerometry Data in Health Research: Challenges and Opportunities. Statistics in Biosciences, 2019, 11, 210-237.	0.6	69

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37	ASSOCIATION BETWEEN WALKING ENERGETICS AND FRAGMENTED PHYSICAL ACTIVITY IN MID-TO-LATE LIFE. Innovation in Aging, 2019, 3, S865-S865.	0.0	0
38	Registration for Exponential Family Functional Data. Biometrics, 2019, 75, 48-57.	0.8	24
39	Active-to-Sedentary Behavior Transitions, Fatigability, and Physical Functioning in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 560-567.	1.7	67
40	Real-time Mobile Monitoring of the Dynamic Associations Among Motor Activity, Energy, Mood, and Sleep in Adults With Bipolar Disorder. JAMA Psychiatry, 2019, 76, 190.	6.0	136
41	Fragmentation as a novel measure of stability in normalized trajectories of mood and attention measured by ecological momentary assessment.. Psychological Assessment, 2019, 31, 329-339.	1.2	13
42	Longitudinal Relationship between Energy Reserves and Brain Atrophy. Medicine and Science in Sports and Exercise, 2019, 51, 617-617.	0.2	0
43	Using Heart Rate and Accelerometry to Define Quantity and Intensity of Physical Activity in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 668-675.	1.7	50
44	Prediction of sustained harmonic walking in the free-living environment using raw accelerometry data. Physiological Measurement, 2018, 39, 02NT02.	1.2	23
45	Perceived Fatigability and Objective Physical Activity in Mid- to Late-Life. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 630-635.	1.7	52
46	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
47	Fatigability and endurance performance in cancer survivors: Analyses from the Baltimore Longitudinal Study of Aging. Cancer, 2018, 124, 1279-1287.	2.0	33
48	Total volume of physical activity: TAC, TLAC or TAC(Î»). Preventive Medicine, 2018, 106, 233-235.	1.6	19
49	Epidemiology of objectively measured bedtime and chronotype in US adolescents and adults: NHANES 2003â€“2006. Chronobiology International, 2018, 35, 416-434.	0.9	35
50	Objectively Measured Physical Activity and Falls in Well-Functioning Older Adults. American Journal of Physical Medicine and Rehabilitation, 2018, 97, 255-260.	0.7	22
51	Contrasting characteristics of daily physical activity in older adults by cancer history. Cancer, 2018, 124, 4692-4699.	2.0	22
52	Continuous Near-Infrared Spectroscopy Demonstrates Limitations in Monitoring the Development of Acute Compartment Syndrome in Patients with Leg Injuries. Journal of Bone and Joint Surgery - Series A, 2018, 100, 1645-1652.	1.4	16
53	F4â€05â€02: CIRCADIAN REST/ACTIVITY RHYTHMS IN COGNITIVELY NORMAL OLDER ADULTS: ASSOCIATIONS WITH MRIâ€DERIVED BRAIN VOLUMES. Alzheimer's and Dementia, 2018, 14, P1389.	0.4	1
54	Novel metrics for growth model selection. Emerging Themes in Epidemiology, 2018, 15, 4.	1.2	4

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55	Field of view of mapping catheters quantified by electrogram associations with radius of myocardial attenuation on contrast-enhanced cardiac computed tomography. Heart Rhythm, 2018, 15, 1617-1625.	0.3	8
56	Mood reactivity and affective dynamics in mood and anxiety disorders.. Journal of Abnormal Psychology, 2018, 127, 659-669.	2.0	66
57	Stride variability measures derived from wrist- and hip-worn accelerometers. Gait and Posture, 2017, 52, 217-223.	0.6	19
58	Longitudinal association between diabetes and cognitive decline: The National Health and Aging Trends Study. Archives of Gerontology and Geriatrics, 2017, 72, 39-44.	1.4	15
59	Predicting Acute Compartment Syndrome (PACS): The Role of Continuous Monitoring. Journal of Orthopaedic Trauma, 2017, 31, S40-S47.	0.7	30
60	Big GABA: Edited MR spectroscopy at 24 research sites. NeuroImage, 2017, 159, 32-45.	2.1	143
61	Re-evaluating the effect of age on physical activity over the lifespan. Preventive Medicine, 2017, 101, 102-108.	1.6	88
62	Association between Objectively Measured Physical Activity and Mortality in NHANES. Medicine and Science in Sports and Exercise, 2016, 48, 1303-1311.	0.2	144
63	Blood glucose levels and cortical thinning in cognitively normal, middle-aged adults. Journal of the Neurological Sciences, 2016, 365, 89-95.	0.3	22
64	Parameterization of White Matter Manifold-Like Structures Using Principal Surfaces. Journal of the American Statistical Association, 2016, 111, 1050-1060.	1.8	2
65	Association of left atrial epicardial adipose tissue with electrogram bipolar voltage and fractionation: Electrophysiologic substrates for atrial fibrillation. Heart Rhythm, 2016, 13, 2333-2339.	0.3	40
66	Two-way principal component analysis for matrix-variate data, with an application to functional magnetic resonance imaging data. Biostatistics, 2016, 18, kxw040.	0.9	7
67	Fast covariance estimation for high-dimensional functional data. Statistics and Computing, 2016, 26, 409-421.	0.8	58
68	The association of baseline left atrial structure and function measured with cardiac magnetic resonance and pulmonary vein isolation outcome in patients with drug-refractory atrial fibrillation. Heart Rhythm, 2016, 13, 1037-1044.	0.3	39
69	Left Atrial LGE and Arrhythmia Recurrence Following Pulmonary Vein Isolation forÂParoxysmal and Persistent AF. JACC: Cardiovascular Imaging, 2016, 9, 142-148.	2.3	94
70	Rising Energetic Cost of Walking Predicts Gait Speed Decline With Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 947-953.	1.7	64
71	Association of left atrial function with incident atypical atrial flutter after atrial fibrillation ablation. Heart Rhythm, 2016, 13, 391-398.	0.3	13
72	Association of Left Atrial Local Conduction Velocity With Late Gadolinium Enhancement on Cardiac Magnetic Resonance in Patients With Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e002897.	2.1	77

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73	Association Between Left Atrial Stiffness Index and Atrial Fibrillation Recurrence in Patients Undergoing Left Atrial Ablation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	65
74	Lack of regional association between atrial late gadolinium enhancement on cardiac magnetic resonance and atrial fibrillation rotors. Heart Rhythm, 2016, 13, 654-660.	0.3	43
75	Fast, Exact Bootstrap Principal Component Analysis for p > 1 Million. Journal of the American Statistical Association, 2016, 111, 846-860.	1.8	19
76	Generalized Multilevel Function-on-Scalar Regression and Principal Component Analysis. Biometrics, 2015, 71, 344-353.	0.8	88
77	Women Workers and Women at Home Are Equally Inactive. Medicine and Science in Sports and Exercise, 2015, 47, 1635-1642.	0.2	12
78	Statistical image analysis of longitudinal RAVENS images. Frontiers in Neuroscience, 2015, 9, 368.	1.4	4
79	Structured Functional Principal Component Analysis. Biometrics, 2015, 71, 247-257.	0.8	41
80	New insight into scar-related ventricular tachycardia circuits in ischemic cardiomyopathy: Fat deposition after myocardial infarction on computed tomography--A pilot study. Heart Rhythm, 2015, 12, 1508-1518.	0.3	50
81	Electronic Devices and Applications to Track Physical Activity. JAMA - Journal of the American Medical Association, 2015, 313, 2079.	3.8	12
82	Comparison of preexisting and ablation-induced late gadolinium enhancement on left atrial magnetic resonance imaging. Heart Rhythm, 2015, 12, 668-672.	0.3	25
83	Association of Left Atrial Function and Left Atrial Enhancement in Patients With Atrial Fibrillation. Circulation: Cardiovascular Imaging, 2015, 8, e002769.	1.3	141
84	The association of left atrial low-voltage regions on electroanatomic mapping with low attenuation regions on cardiac computed tomography perfusion imaging in patients with atrial fibrillation. Heart Rhythm, 2015, 12, 857-864.	0.3	27
85	Daily patterns of physical activity by type 2 diabetes definition: Comparing diabetes, prediabetes, and participants with normal glucose levels in NHANES 2003â€“2006. Preventive Medicine Reports, 2015, 2, 152-157.	0.8	26
86	Quantifying the lifetime circadian rhythm of physical activity: a covariate-dependent functional approach. Biostatistics, 2015, 16, 352-367.	0.9	60
87	Estimating Energy Expenditure from Heart Rate in Older Adults: A Case for Calibration. PLoS ONE, 2014, 9, e93520.	1.1	33
88	The Association of Pre-Existing Left Atrial Fibrosis with Clinical Variables in Patients Referred for Catheter Ablation of Atrial Fibrillation. Clinical Medicine Insights: Cardiology, 2014, 8s1, CMC.S15036.	0.6	21
89	Assessing the "Physical Cliff": Detailed Quantification of Age-Related Differences in Daily Patterns of Physical Activity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 973-979.	1.7	152
90	Normalization and extraction of interpretable metrics from raw accelerometry data. Biostatistics, 2014, 15, 102-116.	0.9	31

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91	Magnetic resonance image intensity ratio, a normalized measure to enable interpatient comparability of left atrial fibrosis. Heart Rhythm, 2014, 11, 85-92.	0.3	146
92	Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. Annals of Applied Statistics, 2014, 8, 2175-2202.	0.5	33
93	Impact of Nonischemic Scar Features on Local Ventricular Electrograms and Scar-Related Ventricular Tachycardia Circuits in Patients With Nonischemic Cardiomyopathy. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 1139-1147.	2.1	58
94	Functional principal component model for high-dimensional brain imaging. NeuroImage, 2011, 58, 772-784.	2.1	66
95	Multilevel Functional Principal Component Analysis for High-Dimensional Data. Journal of Computational and Graphical Statistics, 2011, 20, 852-873.	0.9	54
96	Counting Tables Using the Double-Saddlepoint Approximation. Journal of Computational and Graphical Statistics, 2009, 18, 915-929.	0.9	5