

Jessilyn P Dunn

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,699
citations

331538

21
h-index

360920

35
g-index

43
all docs

43
docs citations

43
times ranked

5994
citing authors

#	ARTICLE	IF	CITATIONS
1	Demographic Imbalances Resulting From the Bring-Your-Own-Device Study Design. JMIR MHealth and UHealth, 2022, 10, e29510.	1.8	15
2	Detection and Monitoring of Viral Infections via Wearable Devices and Biometric Data. Annual Review of Biomedical Engineering, 2022, 24, 1-27.	5.7	15
3	Environmental, User, and Social Context-Aware Augmented Reality for Supporting Personal Development and Change. , 2022, , .		9
4	Field-Based Assessments of Behavioral Patterns During Shiftwork in Police Academy Trainees Using Wearable Technology. Journal of Biological Rhythms, 2022, 37, 260-271.	1.4	7
5	Optimizing sampling rate of wrist-worn optical sensors for physiologic monitoring. Journal of Clinical and Translational Science, 2021, 5, e34.	0.3	9
6	The digital biomarker discovery pipeline: An open-source software platform for the development of digital biomarkers using mHealth and wearables data. Journal of Clinical and Translational Science, 2021, 5, e19.	0.3	44
7	Cgmquantify: Python and R Software Packages for Comprehensive Analysis of Interstitial Glucose and Glycemic Variability from Continuous Glucose Monitor Data. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 263-266.	1.7	7
8	Digital Medicine Community Perspectives and Challenges: Survey Study. JMIR MHealth and UHealth, 2021, 9, e24570.	1.8	7
9	Reply: Matters Arising â€”Investigating sources of inaccuracy in wearable optical heart rate sensorsâ€™. Npj Digital Medicine, 2021, 4, 39.	5.7	7
10	Wearable sensors enable personalized predictions of clinical laboratory measurements. Nature Medicine, 2021, 27, 1105-1112.	15.2	121
11	Non-invasive wearables for remote monitoring of HbA1c and glucose variability: proof of concept. BMJ Open Diabetes Research and Care, 2021, 9, e002027.	1.2	14
12	Engineering digital biomarkers of interstitial glucose from noninvasive smartwatches. Npj Digital Medicine, 2021, 4, 89.	5.7	28
13	Taking the time for our bodies: How wearables can be used to assess circadian physiology. Cell Reports Methods, 2021, 1, 100067.	1.4	2
14	Assessment of the Feasibility of Using Noninvasive Wearable Biometric Monitoring Sensors to Detect Influenza and the Common Cold Before Symptom Onset. JAMA Network Open, 2021, 4, e2128534.	2.8	25
15	Recent Academic Research on Clinically Relevant Digital Measures: Systematic Review. Journal of Medical Internet Research, 2021, 23, e29875.	2.1	10
16	Biosignal Compression Toolbox for Digital Biomarker Discovery. Sensors, 2021, 21, 516.	2.1	7
17	Verification, analytical validation, and clinical validation (V3): the foundation of determining fit-for-purpose for Biometric Monitoring Technologies (BioMeTs). Npj Digital Medicine, 2020, 3, 55.	5.7	236
18	EventDTW: An Improved Dynamic Time Warping Algorithm for Aligning Biomedical Signals of Nonuniform Sampling Frequencies. Sensors, 2020, 20, 2700.	2.1	32

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19	Investigating sources of inaccuracy in wearable optical heart rate sensors. <i>Npj Digital Medicine</i> , 2020, 3, 18.	5.7	317
20	Wearables in the SARS-CoV-2 Pandemic: What Are They Good for?. <i>JMIR MHealth and UHealth</i> , 2020, 8, e25137.	1.8	8
21	73-LB: Expanding the Definition of Intraday Glucose Variability. <i>Diabetes</i> , 2020, 69, .	0.3	2
22	Associations between unstable housing, obstetric outcomes, and perinatal health care utilization. <i>American Journal of Obstetrics & Gynecology</i> MFM, 2019, 1, 100053.	1.3	24
23	Windows into human health through wearables data analytics. <i>Current Opinion in Biomedical Engineering</i> , 2019, 9, 28-46.	1.8	101
24	Longitudinal multi-omics of host-microbe dynamics in prediabetes. <i>Nature</i> , 2019, 569, 663-671.	13.7	391
25	A longitudinal big data approach for precision health. <i>Nature Medicine</i> , 2019, 25, 792-804.	15.2	329
26	Estimating Personal Resting Heart Rate from Wearable Biosensor Data. , 2019, , .		2
27	Personal Omics for Precision Health. <i>Circulation Research</i> , 2018, 122, 1169-1171.	2.0	54
28	High-frequency actionable pathogenic exome variants in an average-risk cohort. <i>Journal of Physical Education and Sports Management</i> , 2018, 4, a003178.	0.5	23
29	Wearables and the medical revolution. <i>Personalized Medicine</i> , 2018, 15, 429-448.	0.8	361
30	Digital Health: Tracking Physiomes and Activity Using Wearable Biosensors Reveals Useful Health-Related Information. <i>PLoS Biology</i> , 2017, 15, e2001402.	2.6	319
31	The role of epigenetics in the endothelial cell shear stress response and atherosclerosis. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 67, 167-176.	1.2	54
32	Flow-Dependent Epigenetic DNA Methylation in Endothelial Gene Expression and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1562-1569.	1.1	89
33	Total Synthesis of a Functional Designer Eukaryotic Chromosome. <i>Science</i> , 2014, 344, 55-58.	6.0	486
34	Fluid Mechanics, Arterial Disease, and Gene Expression. <i>Annual Review of Fluid Mechanics</i> , 2014, 46, 591-614.	10.8	134
35	Flow-dependent epigenetic DNA methylation regulates endothelial gene expression and atherosclerosis. <i>Journal of Clinical Investigation</i> , 2014, 124, 3187-3199.	3.9	260
36	S-Nitrosation of arginase 1 requires direct interaction with inducible nitric oxide synthase. <i>Molecular and Cellular Biochemistry</i> , 2011, 355, 83-89.	1.4	22

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37	Decreased <i>S</i> -Nitrosylation of Tissue Transglutaminase Contributes to Age-Related Increases in Vascular Stiffness. <i>Circulation Research</i> , 2010, 107, 117-125.	2.0	124