

Kouhyar Tavakolian

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

1,178
citations

17
h-index

33
g-index

58
ext. papers

1,466
ext. citations

3
avg, IF

4.53
L-index

#	Paper	IF	Citations
48	Ballistocardiography and seismocardiography: a review of recent advances. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1414-27	7.2	363
47	Seismocardiography: past, present and future. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7004-7	0.9	75
46	Mechanically flexible wireless multisensor platform for human physical activity and vitals monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 281-94	5.1	70
45	Automatic annotation of seismocardiogram with high-frequency precordial accelerations. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1428-34	7.2	54
44	Vertical ground reaction force marker for Parkinson's disease. <i>PLoS ONE</i> , 2017 , 12, e0175951	3.7	49
43	Automatic and Robust Delineation of the Fiducial Points of the Seismocardiogram Signal for Non-invasive Estimation of Cardiac Time Intervals. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1701-1710	5	42
42	Precordial vibrations provide noninvasive detection of early-stage hemorrhage. <i>Shock</i> , 2014 , 41, 91-6	3.4	37
41	Improvement of ballistocardiogram processing by inclusion of respiration information. <i>Physiological Measurement</i> , 2008 , 29, 771-81	2.9	36
40	Systolic Time Intervals and New Measurement Methods. <i>Cardiovascular Engineering and Technology</i> , 2016 , 7, 118-25	2.2	36
39	Analyzing Seismocardiogram Cycles to Identify the Respiratory Phases. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1786-1792	5	34
38	Mechanisms Underlying Isovolumic Contraction and Ejection Peaks in Seismocardiogram Morphology. <i>Journal of Medical and Biological Engineering</i> , 2012 , 32, 103-110	2.2	31
37	A Hidden Markov Model for Seismocardiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2361-2372	5	26
36	Skeletal Muscle Pump Drives Control of Cardiovascular and Postural Systems. <i>Scientific Reports</i> , 2017 , 7, 45301	4.9	22
35	Detection and classification of acne lesions in acne patients: A mobile application 2016 ,		22
34	Comparison of Different Methods for Estimating Cardiac Timings: A Comprehensive Multimodal Echocardiography Investigation. <i>Frontiers in Physiology</i> , 2019 , 10, 1057	4.6	21
33	Myocardial contractility: a seismocardiography approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3801-4	0.9	21
32	Validation of respiratory signal derived from suprasternal notch acceleration for sleep apnea detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3824-7	0.9	17

31	Comparative analysis of three different modalities for characterization of the seismocardiogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 2899-903</i>	0.9	17
30	Comparison of Autonomic Control of Blood Pressure During Standing and Artificial Gravity Induced via Short-Arm Human Centrifuge. <i>Frontiers in Physiology, 2018, 9, 712</i>	4.6	14
29	Infrasonic cardiac signals: complementary windows to cardiovascular dynamics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4275-8</i>	0.9	14
28	Accurate and consistent automatic seismocardiogram annotation without concurrent ECG. <i>Physiological Measurement, 2016, 37, 1588-604</i>	2.9	14
27	Evaluation of a novel integrated sensor system for synchronous measurement of cardiac vibrations and cardiac potentials. <i>Journal of Medical Systems, 2011, 35, 445-55</i>	5.1	13
26	Comparative analysis of seismocardiogram waves with the ultra-low frequency ballistocardiogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 2851-4</i>	0.9	13
25	Significant role of the cardiopostural interaction in blood pressure regulation during standing. <i>American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H568-H577</i>	5.2	11
24	Tremor quantification of Parkinson's disease - a pilot study 2016,		11
23	Development of a novel contactless mechanocardiograph device. <i>International Journal of Telemedicine and Applications, 2008, 436870</i>	2.6	11
22	Assessment of respiratory flow and efforts using upper-body acceleration. <i>Medical and Biological Engineering and Computing, 2014, 52, 653-61</i>	3.1	10
21	Preliminary Results for Estimating Pulse Transit Time Using Seismocardiogram ¹ . <i>Journal of Medical Devices, Transactions of the ASME, 2015, 9,</i>	1.3	9
20	A review of methods and applications of brain computer interface systems 2016,		8
19	Non-linear Heart Rate and Blood Pressure Interaction in Response to Lower-Body Negative Pressure. <i>Frontiers in Physiology, 2017, 8, 767</i>	4.6	8
18	Pulse transit time extraction from Seismocardiogram and its relationship with pulse pressure 2015,		8
17	Seismocardiographic adjustment of diastolic timed vibrations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3797-800</i>	0.9	8
16	Monitoring torso acceleration for estimating the respiratory flow and efforts for sleep apnea detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6345-8</i>	0.9	8
15	Relationship between Ischemic Stroke and Pulse Rate Variability as a Surrogate of Heart Rate Variability. <i>Brain Sciences, 2019, 9,</i>	3.4	6
14	Effect of Aging on Muscle-Pump Baroreflex of Individual Leg Muscles During Standing. <i>Frontiers in Physiology, 2019, 10, 845</i>	4.6	6

13	Identification of respiratory phases using seismocardiogram: A machine learning approach 2015 ,		5
12	Using electromechanical signals recorded from the body for respiratory phase detection and respiratory time estimation: A comparative study 2015 ,		5
11	Cardio-postural interactions and muscle-pump baroreflex are severely impacted by 60-day bedrest immobilization. <i>Scientific Reports</i> , 2020 , 10, 12042	4.9	4
10	Analysis of causal cardio-postural interaction under orthostatic stress using convergent cross mapping. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2319-2322	0.9	4
9	The repeatability of estimated systolic time intervals in healthy subjects using seismocardiogram and electrocardiogram. <i>Physiological Measurement</i> , 2020 , 41, 02NT01	2.9	3
8	Identifying Patients With Coronary Artery Disease Using Rest and Exercise Seismocardiography. <i>Frontiers in Physiology</i> , 2019 , 10, 1211	4.6	3
7	Accurate and consistent automatic seismocardiogram annotation without concurrent ECG 2015 ,		3
6	Cardiac Mechanical Signals. <i>Series in Bioengineering</i> , 2019 , 63-79	0.7	1
5	Neurocognitive deficits observed on high school football players with history of concussion: A preliminary study 2016 ,		1
4	Radar mechanocardiography: a novel analysis of the mechanical behavior of the heart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 4863-6	0.9	1
3	Toward Hand Arthritis Diagnostics Using Smart Phones: Camera Distortion Effect Correction1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
2	Fusion of Electrocardiogram and Accelerocardiogram Derived Respiration Methods for Estimation of Respiratory Phases. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
1	Detecting Coronary Artery Disease Using Rest Seismocardiography and Gyrocardiography.. <i>Frontiers in Physiology</i> , 2021 , 12, 758727	4.6	0