

Mozziyar Etemadi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,260
citations

430874

18
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

5565
citing authors

#	ARTICLE	IF	CITATIONS
1	International evaluation of an AI system for breast cancer screening. <i>Nature</i> , 2020, 577, 89-94.	27.8	1,458
2	End-to-end lung cancer screening with three-dimensional deep learning on low-dose chest computed tomography. <i>Nature Medicine</i> , 2019, 25, 954-961.	30.7	1,122
3	Ballistocardiography and Seismocardiography: A Review of Recent Advances. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1414-1427.	6.3	529
4	Novel Wearable Seismocardiography and Machine Learning Algorithms Can Assess Clinical Status of Heart Failure Patients. <i>Circulation: Heart Failure</i> , 2018, 11, e004313.	3.9	136
5	Ballistocardiography — A method worth revisiting. , 2011, 2011, 4279-82.		117
6	Rapid Assessment of Cardiac Contractility on a Home Bathroom Scale. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 864-869.	3.2	80
7	A Wearable Patch to Enable Long-Term Monitoring of Environmental, Activity and Hemodynamics Variables. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 280-288.	4.0	75
8	Quantifying and Reducing Motion Artifacts in Wearable Seismocardiogram Measurements During Walking to Assess Left Ventricular Health. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1277-1286.	4.2	61
9	Wearable Cuff-Less Blood Pressure Estimation at Home via Pulse Transit Time. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1926-1937.	6.3	53
10	A Wearable, Multimodal Sensing System to Monitor Knee Joint Health. <i>IEEE Sensors Journal</i> , 2020, 20, 10323-10334.	4.7	47
11	Toward Continuous, Noninvasive Assessment of Ventricular Function and Hemodynamics: Wearable Ballistocardiography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1435-1442.	6.3	46
12	Wearable ballistocardiogram and seismocardiogram systems for health and performance. <i>Journal of Applied Physiology</i> , 2018, 124, 452-461.	2.5	45
13	Evaluation and Mitigation of Racial Bias in Clinical Machine Learning Models: Scoping Review. <i>JMIR Medical Informatics</i> , 2022, 10, e36388.	2.6	44
14	Classification of Decompensated Heart Failure From Clinical and Home Ballistocardiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1303-1313.	4.2	30
15	Estimation of Instantaneous Oxygen Uptake During Exercise and Daily Activities Using a Wearable Cardio-Electromechanical and Environmental Sensor. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 634-646.	6.3	28
16	Automatic detection of motion artifacts in the ballistocardiogram measured on a modified bathroom scale. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 213-220.	2.8	26
17	Antenatal maternally-administered phosphodiesterase type 5 inhibitors normalize eNOS expression in the fetal lamb model of congenital diaphragmatic hernia. <i>Journal of Pediatric Surgery</i> , 2014, 49, 39-45.	1.6	22
18	Deep learning for distinguishing normal versus abnormal chest radiographs and generalization to two unseen diseases tuberculosis and COVID-19. <i>Scientific Reports</i> , 2021, 11, 15523.	3.3	22

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19	Non-invasive assessment of cardiac contractility on a weighing scale. , 2009, 2009, 6773-6.		21
20	Estimation of Changes in Intracardiac Hemodynamics Using Wearable Seismocardiography and Machine Learning in Patients With Heart Failure: A Feasibility Study. IEEE Transactions on Biomedical Engineering, 2022, 69, 2443-2455.	4.2	20
21	Rapid and Low-cost Prototyping of Medical Devices Using 3D Printed Molds for Liquid Injection Molding. Journal of Visualized Experiments, 2014, , e51745.	0.3	19
22	A deep-learning-based unsupervised model on esophageal manometry using variational autoencoder. Artificial Intelligence in Medicine, 2021, 112, 102006.	6.5	19
23	Wearable Patch-Based Estimation of Oxygen Uptake and Assessment of Clinical Status during Cardiopulmonary Exercise Testing in Patients With Heart Failure. Journal of Cardiac Failure, 2020, 26, 948-958.	1.7	18
24	Non-Invasive Wearable Patch Utilizing Seismocardiography for Peri-Operative Use in Surgical Patients. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1572-1582.	6.3	17
25	Wearable ballistocardiography: Preliminary methods for mapping surface vibration measurements to whole body forces. , 2014, 2014, 5172-5.		16
26	Enabling Continuous Wearable Reflectance Pulse Oximetry at the Sternum. Biosensors, 2021, 11, 521.	4.7	16
27	MyPectus: First-in-human pilot study of remote compliance monitoring of teens using dynamic compression bracing to correct pectus carinatum. Journal of Pediatric Surgery, 2016, 51, 608-611.	1.6	13
28	Towards BirthAlertâ€”A Clinical Device Intended for Early Preterm Birth Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 3484-3493.	4.2	12
29	Detecting Aortic Valve-Induced Abnormal Flow with Seismocardiography and Cardiac MRI. Annals of Biomedical Engineering, 2020, 48, 1779-1792.	2.5	12
30	Dynamic tracheal occlusion improves lung morphometrics and function in the fetal lamb model of congenital diaphragmatic hernia. Journal of Pediatric Surgery, 2011, 46, 1150-1157.	1.6	11
31	Using Ballistocardiography to Monitor Left Ventricular Function in Heart Failure Patients. Journal of Cardiac Failure, 2016, 22, S45.	1.7	11
32	A multi-stage machine learning model for diagnosis of esophageal manometry. Artificial Intelligence in Medicine, 2022, 124, 102233.	6.5	10
33	Quality Factor Optimization of Inductive Antennas for Implantable Pressure Sensors. IEEE Sensors Journal, 2014, 14, 2452-2460.	4.7	9
34	Deep learningâ€”based artificial intelligence model for identifying swallow types in esophageal highâ€”resolution manometry. Neurogastroenterology and Motility, 2022, 34, e14290.	3.0	7
35	Seismocardiography and Machine Learning Algorithms to Assess Clinical Status of Patients with Heart Failure in Cardiopulmonary Exercise Testing. Journal of Cardiac Failure, 2019, 25, S64-S65.	1.7	5
36	Preventing Intraoperative Hypotension. Anesthesiology, 2020, 133, 1170-1172.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Preventing Delayed and Missed Care by Applying Artificial Intelligence to Trigger Radiology Imaging Follow-up. NEJM Catalyst, 2022, 3, .	0.7	5
38	Evaluating the Foot Electromyogram Signal as a Noise Reference for a Bathroom Scale Ballistocardiogram Recorder. , 2008, , .		4
39	Cognitive memory: Human and machine. , 2009, , .		4
40	Seismocardiography Can Assess Cardiopulmonary Exercise Test Parameters in Patients with Heart Failure. Journal of Cardiac Failure, 2018, 24, S124-S125.	1.7	4
41	Implantable Ultralow Pulmonary Pressure Monitoring System for Fetal Surgery. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1208-1215.	3.2	3
42	Seismocardiography and 4D flow MRI reveal impact of aortic valve replacement on chest acceleration and aortic hemodynamics. Journal of Cardiac Surgery, 2020, 35, 232-235.	0.7	3
43	Novel Noninvasive Biosensors and Artificial Intelligence for Optimized Heart Failure Management. JACC Basic To Translational Science, 2022, 7, 316-318.	4.1	3
44	Amalgamation of cloud-based colonoscopy videos with patient-level metadata to facilitate large-scale machine learning. Endoscopy International Open, 2021, 09, E233-E238.	1.8	2
45	The answer at our fingertips: Volume status in cirrhosis determined by machine learning and pulse oximeter waveform. Physiological Reports, 2022, 10, e15223.	1.7	2
46	Incorporating Intra-Operative Medication Information for Prediction of Post-Operative Atrial Fibrillation. , 2019, , .		0
47	Effects Upon Postoperative Atrial Fibrillation Prediction of Varied Observation Time Windows. , 2019, , .		0