

Lionel Tarassenko

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.

152
papers

3,944
citations

34
h-index

59
g-index

170
ext. papers

5,206
ext. citations

5.5
avg, IF

5.44
L-index

#	Paper	IF	Citations
152	Non-contact video-based vital sign monitoring using ambient light and auto-regressive models. <i>Physiological Measurement</i> , 2014 , 35, 807-31	2.9	269
151	Efficacy of self-monitored blood pressure, with or without telemonitoring, for titration of antihypertensive medication (TASMINH4): an unmasked randomised controlled trial. <i>Lancet, The</i> , 2018 , 391, 949-959	40	179
150	Mobile Phone Text Messages to Support Treatment Adherence in Adults With High Blood Pressure (SMS-Text Adherence Support [StAR]): A Single-Blind, Randomized Trial. <i>Circulation</i> , 2016 , 133, 592-600	16.7	159
149	Integrated monitoring and analysis for early warning of patient deterioration. <i>British Journal of Anaesthesia</i> , 2006 , 97, 64-8	5.4	149
148	A Probabilistic Resource Allocating Network for Novelty Detection. <i>Neural Computation</i> , 1994 , 6, 270-284	9	146
147	Feasibility of Obtaining Measures of Lifestyle From a Smartphone App: The MyHeart Counts Cardiovascular Health Study. <i>JAMA Cardiology</i> , 2017 , 2, 67-76	16.2	137
146	Photoplethysmographic derivation of respiratory rate: a review of relevant physiology. <i>Journal of Medical Engineering and Technology</i> , 2012 , 36, 1-7	1.8	129
145	Breathing Rate Estimation From the Electrocardiogram and Photoplethysmogram: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2018 , 11, 2-20	6.4	128
144	Application of independent component analysis in removing artefacts from the electrocardiogram. <i>Neural Computing and Applications</i> , 2006 , 15, 105-116	4.8	127
143	A randomized controlled trial of the effect of real-time telemedicine support on glycemic control in young adults with type 1 diabetes (ISRCTN 46889446). <i>Diabetes Care</i> , 2005 , 28, 2697-702	14.6	124
142	Continuous non-contact vital sign monitoring in neonatal intensive care unit. <i>Healthcare Technology Letters</i> , 2014 , 1, 87-91	1.9	106
141	Centile-based early warning scores derived from statistical distributions of vital signs. <i>Resuscitation</i> , 2011 , 82, 1013-8	4	97
140	Non-contact measurement of oxygen saturation with an RGB camera. <i>Biomedical Optics Express</i> , 2015 , 6, 3320-38	3.5	84
139	Using a mobile health application to support self-management in COPD: a qualitative study. <i>British Journal of General Practice</i> , 2014 , 64, e392-400	1.6	82
138	A randomised controlled trial of the effect of continuous electronic physiological monitoring on the adverse event rate in high risk medical and surgical patients. <i>Anaesthesia</i> , 2006 , 61, 1031-9	6.6	82
137	Telemedicine Technologies for Diabetes in Pregnancy: A Systematic Review and Meta-Analysis. <i>Journal of Medical Internet Research</i> , 2016 , 18, e290	7.6	75
136	Data fusion for estimating respiratory rate from a single-lead ECG. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 98-105	4.9	73

135	Comparing the Efficacy of a Mobile Phone-Based Blood Glucose Management System With Standard Clinic Care in Women With Gestational Diabetes: Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , 2018 , 6, e71	5.5	72
134	SMARTHealth India: Development and Field Evaluation of a Mobile Clinical Decision Support System for Cardiovascular Diseases in Rural India. <i>JMIR MHealth and UHealth</i> , 2014 , 2, e54	5.5	65
133	Novelty Detection with Multivariate Extreme Value Statistics. <i>Journal of Signal Processing Systems</i> , 2011 , 65, 371-389	1.4	62
132	A new approach to the analysis of the human sleep/wakefulness continuum. <i>Journal of Sleep Research</i> , 1996 , 5, 201-10	5.8	62
131	Exacerbations in Chronic Obstructive Pulmonary Disease: Identification and Prediction Using a Digital Health System. <i>Journal of Medical Internet Research</i> , 2017 , 19, e69	7.6	62
130	Acceptability and user satisfaction of a smartphone-based, interactive blood glucose management system in women with gestational diabetes mellitus. <i>Journal of Diabetes Science and Technology</i> , 2015 , 9, 111-5	4.1	60
129	Self-Management Support Using a Digital Health System Compared With Usual Care for Chronic Obstructive Pulmonary Disease: Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2017 , 19, e144	7.6	58
128	Using a mobile health application to support self-management in chronic obstructive pulmonary disease: a six-month cohort study. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15, 46	3.6	54
127	Digital health system for personalised COPD long-term management. <i>BMC Medical Informatics and Decision Making</i> , 2017 , 17, 19	3.6	49
126	A personalised mobile-based home monitoring system for heart failure: The SUPPORT-HF Study. <i>International Journal of Medical Informatics</i> , 2015 , 84, 743-53	5.3	45
125	Development of a real-time smartphone solution for the management of women with or at high risk of gestational diabetes. <i>Journal of Diabetes Science and Technology</i> , 2014 , 8, 1105-14	4.1	41
124	Novelty detection for the identification of abnormalities. <i>International Journal of Systems Science</i> , 2000 , 31, 1427-1439	2.3	41
123	Self-Management of Postnatal Hypertension: The SNAP-HT Trial. <i>Hypertension</i> , 2018 , 72, 425-432	8.5	38
122	Non-contact physiological monitoring of preterm infants in the Neonatal Intensive Care Unit. <i>Npj Digital Medicine</i> , 2019 , 2, 128	15.7	37
121	Multi-Task Convolutional Neural Network for Patient Detection and Skin Segmentation in Continuous Non-Contact Vital Sign Monitoring 2017 ,		35
120	'Errors' and omissions in paper-based early warning scores: the association with changes in vital signs--a database analysis. <i>BMJ Open</i> , 2015 , 5, e007376	3	34
119	Characterizing artefact in the normal human 24-hour RR time series to aid identification and artificial replication of circadian variations in human beat to beat heart rate using a simple threshold		34
118	Testing of Wearable Monitors in a Real-World Hospital Environment: What Lessons Can Be Learnt? 2012 ,		28

117	Implementation of telehealth support for patients with type 2 diabetes using insulin treatment: an exploratory study. <i>Journal of Innovation in Health Informatics</i> , 2009 , 17, 47-53		27
116	SMARThealth India: A stepped-wedge, cluster randomised controlled trial of a community health worker managed mobile health intervention for people assessed at high cardiovascular disease risk in rural India. <i>PLoS ONE</i> , 2019 , 14, e0213708	3.7	25
115	An Extreme Function Theory for Novelty Detection. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 28-37	7.5	25
114	Neural network models for breast cancer prognosis. <i>Neural Computing and Applications</i> , 1998 , 7, 367-375	4.8	24
113	Accelerometry-Based Estimation of Respiratory Rate for Post-Intensive Care Patient Monitoring. <i>IEEE Sensors Journal</i> , 2018 , 18, 4981-4989	4	24
112	Manual centile-based early warning scores derived from statistical distributions of observational vital-sign data. <i>Resuscitation</i> , 2018 , 129, 55-60	4	23
111	Respiratory rate estimation during triage of children in hospitals. <i>Journal of Medical Engineering and Technology</i> , 2015 , 39, 514-24	1.8	23
110	Trajectories of vital signs in patients with COVID-19. <i>Resuscitation</i> , 2020 , 156, 99-106	4	23
109	Predicting in-hospital mortality and unanticipated admissions to the intensive care unit using routinely collected blood tests and vital signs: Development and validation of a multivariable model. <i>Resuscitation</i> , 2018 , 133, 75-81	4	23
108	Self-management support using an Internet-linked tablet computer (the EDGE platform)-based intervention in chronic obstructive pulmonary disease: protocol for the EDGE-COPD randomised controlled trial. <i>BMJ Open</i> , 2014 , 4, e004437	3	22
107	Method for generating an artificial RR tachogram of a typical healthy human over 24-hours		22
106	The Mobile-Based 6-Minute Walk Test: Usability Study and Algorithm Development and Validation. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e13756	5.5	22
105	Track and trigger in an emergency department: an observational evaluation study. <i>Emergency Medicine Journal</i> , 2013 , 30, 186-91	1.5	21
104	Blood pressure monitoring in high-risk pregnancy to improve the detection and monitoring of hypertension (the BUMP 1 and 2 trials): protocol for two linked randomised controlled trials. <i>BMJ Open</i> , 2020 , 10, e034593	3	19
103	Non-Contact Monitoring of Respiration in the Neonatal Intensive Care Unit 2017 ,		18
102	The digital patient. <i>Clinical Medicine</i> , 2013 , 13, 252-7	1.9	18
101	Automated signal quality assessment of mobile phone-recorded heart sound signals. <i>Journal of Medical Engineering and Technology</i> , 2016 , 40, 342-355	1.8	18
100	Physical activity, sleep and cardiovascular health data for 50,000 individuals from the MyHeart Counts Study. <i>Scientific Data</i> , 2019 , 6, 24	8.2	17

99	The relationship between symptoms and blood pressure during maintenance hemodialysis. <i>Hemodialysis International</i> , 2015 , 19, 543-52	1.7	17
98	Validation of Instantaneous Respiratory Rate Using Reflectance PPG from Different Body Positions. <i>Sensors</i> , 2018 , 18,	3.8	17
97	A two-class approach to the detection of physiological deterioration in patient vital signs, with clinical label refinement. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 1231-8		16
96	Using the Medical Research Council framework for development and evaluation of complex interventions in a low resource setting to develop a theory-based treatment support intervention delivered via SMS text message to improve blood pressure control. <i>BMC Health Services Research</i> , 2018 , 18, 33	2.9	15
95	Extending the Generalised Pareto Distribution for Novelty Detection in High-Dimensional Spaces. <i>Journal of Signal Processing Systems</i> , 2014 , 74, 323-339	1.4	15
94	Cardio-respiratory signal extraction from video camera data for continuous non-contact vital sign monitoring using deep learning. <i>Physiological Measurement</i> , 2019 , 40, 115001	2.9	14
93	Trial protocol to compare the efficacy of a smartphone-based blood glucose management system with standard clinic care in the gestational diabetic population. <i>BMJ Open</i> , 2016 , 6, e009702	3	14
92	Signal quality classification of mobile phone-recorded phonocardiogram signals 2014 ,		13
91	Probabilistic approach to the condition monitoring of aerospace engines. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2009 , 223, 533-541	0.9	13
90	Non-invasive measurement of respiratory rate in children using the photoplethysmogram. <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, 1886-9	0.9	13
89	Quantitative assessment of respiratory derivation algorithms		13
88	Early warning score adjusted for age to predict the composite outcome of mortality, cardiac arrest or unplanned intensive care unit admission using observational vital-sign data: a multicentre development and validation. <i>BMJ Open</i> , 2019 , 9, e033301	3	12
87	An impedance pneumography signal quality index: Design, assessment and application to respiratory rate monitoring. <i>Biomedical Signal Processing and Control</i> , 2021 , 65, 102339	4.9	12
86	Gaussian process clustering for the functional characterisation of vital-sign trajectories 2013 ,		11
85	Machine learning and software engineering in health informatics 2012 ,		11
84	The effect of fractional inspired oxygen concentration on early warning score performance: A database analysis. <i>Resuscitation</i> , 2019 , 139, 192-199	4	10
83	Assessment of Signal Processing Methods for Measuring the Respiratory Rate in the Neonatal Intensive Care Unit. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2335-2346	7.2	10
82	Implications of Cardiovascular Disease Risk Assessment Using the WHO/ISH Risk Prediction Charts in Rural India. <i>PLoS ONE</i> , 2015 , 10, e0133618	3.7	10

81	Wearability Testing of Ambulatory Vital Sign Monitoring Devices: Prospective Observational Cohort Study. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e20214	5.5	10
80	Self-reported and objectively measured physical activity in people with and without chronic heart failure: UK Biobank analysis. <i>Open Heart</i> , 2020 , 7, e001099	3	9
79	Personalized alerts for patients with COPD using pulse oximetry and symptom scores. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 3164-7	0.9	9
78	Protocol for a prospective, controlled, cross-sectional, diagnostic accuracy study to evaluate the specificity and sensitivity of ambulatory monitoring systems in the prompt detection of hypoxia and during movement. <i>BMJ Open</i> , 2020 , 10, e034404	3	9
77	Vital-sign circadian rhythms in patients prior to discharge from an ICU: a retrospective observational analysis of routinely recorded physiological data. <i>Critical Care</i> , 2020 , 24, 181	10.8	8
76	Detection of Ectopic Beats in the Electrocardiogram Using an Auto-Associative Neural Network. <i>Neural Processing Letters</i> , 2001 , 14, 15-25	2.4	8
75	Home monitoring with technology-supported management in chronic heart failure: a randomised trial. <i>Heart</i> , 2020 , 106, 1573-1578	5.1	8
74	Creating connections - the development of a mobile-health monitoring system for heart failure: Qualitative findings from a usability cohort study. <i>Digital Health</i> , 2016 , 2, 2055207616671461	4	8
73	Estimation of respiratory rate from motion contaminated photoplethysmography signals incorporating accelerometry. <i>Healthcare Technology Letters</i> , 2019 , 6, 19-26	1.9	7
72	Artificial intelligence in health care: enabling informed care. <i>Lancet, The</i> , 2018 , 391, 1260	40	7
71	Spectral fusion for estimating respiratory rate from the ECG 2009 ,		7
70	Novelty Detection 2008 ,		7
69	On-chip learning with analogue VLSI neural networks. <i>International Journal of Neural Systems</i> , 1993 , 4, 419-26	6.2	7
68	Circadian Blood Pressure Variations Computed From 1.7 Million Measurements in an Acute Hospital Setting. <i>American Journal of Hypertension</i> , 2019 , 32, 1154-1161	2.3	6
67	Pregnancy physiology pattern prediction study (4P study): protocol of an observational cohort study collecting vital sign information to inform the development of an accurate centile-based obstetric early warning score. <i>BMJ Open</i> , 2017 , 7, e016034	3	6
66	Novelty detection with multivariate Extreme Value Theory, part II: An analytical approach to unimodal estimation 2009 ,		6
65	Neural network prediction of relapse in breast cancer patients. <i>Neural Computing and Applications</i> , 1996 , 4, 105-113	4.8	6
64	Pulse arrival time as a surrogate of blood pressure. <i>Scientific Reports</i> , 2021 , 11, 22767	4.9	6

63	Probabilistic detection of vital sign abnormality with Gaussian process regression 2012 ,		5
62	Learning with analogue VLSP MLPs		5
61	Mobile Messaging Support Versus Usual Care for People With Type 2 Diabetes on Glycemic Control: Protocol for a Multicenter Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2019 , 8, e12377	2	5
60	Mood Monitoring Over One Year for People With Chronic Obstructive Pulmonary Disease Using a Mobile Health System: Retrospective Analysis of a Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e14946	5.5	5
59	Non-contact vital-sign monitoring of patients undergoing haemodialysis treatment. <i>Scientific Reports</i> , 2020 , 10, 18529	4.9	5
58	Day-to-day progression of vital-sign circadian rhythms in the intensive care unit. <i>Critical Care</i> , 2021 , 25, 156	10.8	5
57	Digital blood glucose monitoring could provide new objective assessments of blood glucose control in women with gestational diabetes. <i>Diabetic Medicine</i> , 2016 , 33, 1598-1599	3.5	5
56	Supporting people with type 2 diabetes in effective use of their medicine through mobile health technology integrated with clinical care (SuMMIT-D Feasibility): a randomised feasibility trial protocol. <i>BMJ Open</i> , 2019 , 9, e033504	3	5
55	Non-Contact Assessment of Peripheral Artery Haemodynamics Using Infrared Video Thermography. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 276-288	5	5
54	Optimizing a digital intervention for managing blood pressure in stroke patients using a diverse sample: Integrating the person-based approach and patient and public involvement. <i>Health Expectations</i> , 2021 , 24, 327-340	3.7	5
53	Clinical Implications of the NICE 2015 Criteria for Gestational Diabetes Mellitus. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	5
52	Validation of Modelflow Estimates of Cardiac Output in Hemodialysis Patients. <i>Therapeutic Apheresis and Dialysis</i> , 2018 , 22, 337-344	1.9	4
51	Novelty detection with multivariate Extreme Value Theory, part I: A numerical approach to multimodal estimation 2009 ,		4
50	BioSleep: a comprehensive sleep analysis system		4
49	Early risk assessment for COVID-19 patients from emergency department data using machine learning		4
48	Automated identification of abnormal cardiocograms using neural network visualization techniques		4
47	Screening for Hypertension in the INpatient Environment(SHINE): a protocol for a prospective study of diagnostic accuracy among adult hospital patients. <i>BMJ Open</i> , 2019 , 9, e033792	3	4
46	Smoothing Effect in Vital Sign Recordings: Fact or Fiction? A Retrospective Cohort Analysis of Manual and Continuous Vital Sign Measurements to Assess Data Smoothing in Postoperative Care. <i>Anesthesia and Analgesia</i> , 2018 , 127, 960-966	3.9	4

45	Non-invasive stroke volume estimation by transthoracic electrical bioimpedance Doppler echocardiography in healthy volunteers. <i>Journal of Medical Engineering and Technology</i> , 2019 , 43, 33-37	1.8	3
44	Automated method for detecting and reading seven-segment digits from images of blood glucose metres and blood pressure monitors. <i>Journal of Medical Engineering and Technology</i> , 2019 , 43, 341-355	1.8	3
43	Use of wearable monitoring devices to change health behavior. <i>JAMA - Journal of the American Medical Association</i> , 2015 , 313, 1864-5	27.4	3
42	A comparison of approaches to multivariate extreme value theory for novelty detection 2009 ,		3
41	Modelling effects of sotalol on T-wave morphology 2007 ,		3
40	Automated detection of sleep-boundary times using wrist-worn accelerometry		3
39	Monitoring activity of hip injury patients (MoHIP): a sub-study of the World Hip Trauma Evaluation observational cohort study. <i>Pilot and Feasibility Studies</i> , 2020 , 6, 70	1.9	3
38	Toward a Multivariate Prediction Model of Pharmacological Treatment for Women With Gestational Diabetes Mellitus: Algorithm Development and Validation. <i>Journal of Medical Internet Research</i> , 2021 , 23, e21435	7.6	3
37	Pinning the tail on the distribution: A multivariate extension to the generalised Pareto distribution 2011 ,		2
36	Learning pronunciation with the Visual ear. <i>Neural Computing and Applications</i> , 1993 , 1, 169-175	4.8	2
35	App-Based Versus Standard Six-Minute Walk Test in Pulmonary Hypertension: Mixed Methods Study. <i>JMIR MHealth and UHealth</i> , 2021 , 9, e22748	5.5	2
34	Experiences of current vital signs monitoring practices and views of wearable monitoring: A qualitative study in patients and nurses. <i>Journal of Advanced Nursing</i> , 2021 ,	3.1	2
33	Technology-supported home monitoring in heart failure patients. <i>European Heart Journal</i> , 2020 , 41,	9.5	2
32	OxCOVID19 Database, a multimodal data repository for better understanding the global impact of COVID-19. <i>Scientific Reports</i> , 2021 , 11, 9237	4.9	2
31	Vision-Based Patient Monitoring and Management in Mental Health Settings. <i>Journal of Clinical Engineering</i> , 2021 , 46, 36-43	0.4	2
30	The impact of wearable continuous vital sign monitoring on deterioration detection and clinical outcomes in hospitalised patients: a systematic review and meta-analysis. <i>Critical Care</i> , 2021 , 25, 351	10.8	2
29	Effect of Self-monitoring of Blood Pressure on Blood Pressure Control in Pregnant Individuals With Chronic or Gestational Hypertension: The BUMP 2 Randomized Clinical Trial.. <i>JAMA - Journal of the American Medical Association</i> , 2022 , 327, 1666-1678	27.4	2
28	Study protocol for an exploratory interventional study investigating the feasibility of video-based non-contact physiological monitoring in healthy volunteers by Mapping Of Lower Limb skin pErfusion (MOLLIE). <i>BMJ Open</i> , 2020 , 10, e036235	3	1

27	Fusing conventional ECG QRS detection algorithms with an auto-associative neural network for the detection of ectopic beats		1
26	Neural Networks for Mobile Robot Localisation using Infra-Red Range Sensing. <i>Neural Computing and Applications</i> , 1999 , 8, 114-134	4.8	1
25	PERTURBATION TECHNIQUES FOR ON-CHIP LEARNING WITH ANALOGUE VLSI MLPs. <i>Journal of Circuits, Systems and Computers</i> , 1996 , 06, 93-113	0.9	1
24	The Use of Wearable Pulse Oximeters in the Prompt Detection of Hypoxemia and During Movement: Diagnostic Accuracy Study.. <i>Journal of Medical Internet Research</i> , 2022 , 24, e28890	7.6	1
23	Non-contact physiological monitoring of post-operative patients in the intensive care unit.. <i>Npj Digital Medicine</i> , 2022 , 5, 4	15.7	1
22	A Survey of Mobile Phone Sensing, Self-Reporting, and Social Sharing for Pervasive Healthcare		1
21	Wearability Testing of Ambulatory Vital Sign Monitoring Devices: Prospective Observational Cohort Study (Preprint)		1
20	Digital messaging to support control for type 2 diabetes (StAR2D): a multicentre randomised controlled trial. <i>BMC Public Health</i> , 2021 , 21, 1907	4.1	1
19	Impact of Electronic Versus Paper Vital Sign Observations on Length of Stay in Trauma Patients: Stepped-Wedge, Cluster Randomized Controlled Trial. <i>JMIR Medical Informatics</i> , 2018 , 6, e10221	3.6	1
18	Early detection of physiological deterioration in post-surgical patients using wearable technology combined with an integrated monitoring system: a pre- and post-interventional study		1
17	System Architecture for "Support Through Mobile Messaging and Digital Health Technology for Diabetes" (SuMMiT-D): Design and Performance in Pilot and Randomized Controlled Feasibility Studies. <i>JMIR Formative Research</i> , 2021 , 5, e18460	2.5	1
16	Wearable pulse oximeters in the prompt detection of hypoxaemia and during movement: a diagnostic accuracy study (Preprint)		1
15	Protocol for a systematic review assessing ambulatory vital sign monitoring impact on deterioration detection and related clinical outcomes in hospitalised patients. <i>BMJ Open</i> , 2021 , 11, e047715	3.7	1
14	Estimated Prevalence of Hypertension and Undiagnosed Hypertension in a Large Inpatient Population: A Cross-sectional Observational Study. <i>American Journal of Hypertension</i> , 2021 , 34, 963-972	2.3	1
13	A new method to measure inter-breath intervals in infants for the assessment of apnoea and respiratory dynamics		1
12	What lies downstream: Cellular oxygen delivery during hemodialysis. <i>Seminars in Dialysis</i> , 2019 , 32, 232-236		1
11	Non-contact vital sign monitoring of patients in an intensive care unit: A human factors analysis of staff expectations. <i>Applied Ergonomics</i> , 2021 , 90, 103149	4.2	1
10	A Chest Patch for Continuous Vital Sign Monitoring: Clinical Validation Study During Movement and Controlled Hypoxia (Preprint)		1

9	A Real-Time Wearable System for Monitoring Vital Signs of COVID-19 Patients in a Hospital Setting. <i>Frontiers in Digital Health</i> , 2021 , 3, 630273	2.3	1
8	A Chest Patch for Continuous Vital Sign Monitoring: Clinical Validation Study During Movement and Controlled Hypoxia. <i>Journal of Medical Internet Research</i> , 2021 , 23, e27547	7.6	1
7	New method to measure interbreath intervals in infants for the assessment of apnoea and respiration. <i>BMJ Open Respiratory Research</i> , 2021 , 8,	5.6	1
6	Effect of Self-monitoring of Blood Pressure on Diagnosis of Hypertension During Higher-Risk Pregnancy: The BUMP 1 Randomized Clinical Trial.. <i>JAMA - Journal of the American Medical Association</i> , 2022 , 327, 1656-1665	27.4	1
5	Continuous wireless postoperative monitoring using wearable devices: further device innovation is needed. <i>Critical Care</i> , 2021 , 25, 394	10.8	0
4	Supporting People With Type 2 Diabetes in the Effective Use of Their Medicine Through Mobile Health Technology Integrated With Clinical Care to Reduce Cardiovascular Risk: Protocol for an Effectiveness and Cost-effectiveness Randomized Controlled Trial.. <i>JMIR Research Protocols</i> , 2022 , 11, e32818	2	
3	Algorithmic comparison of patient-reported blood glucose diary records with meters memory in gestational diabetes. <i>Informatics in Medicine Unlocked</i> , 2020 , 20, 100397	5.3	
2	Reply to: Trajectories of vital signs in patients with Covid-19. <i>Resuscitation</i> , 2021 , 162, 451-452	4	
1	Recruiting patients to a digital self-management study whilst in hospital for a chronic obstructive pulmonary disease exacerbation: A feasibility analysis. <i>Digital Health</i> , 2021 , 7, 20552076211020876	4	