

Lionel Tarassenko

List of Publications by Year in Descending Order

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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	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
151	Non-contact physiological monitoring of post-operative patients in the intensive care unit.. <i>Npj Digital Medicine</i> , 2022 , 5, 4	15.7	1
150	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, e38818	2	
149	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
148	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
147	Pulse arrival time as a surrogate of blood pressure. <i>Scientific Reports</i> , 2021 , 11, 22767	4.9	6
146	Continuous wireless postoperative monitoring using wearable devices: further device innovation is needed. <i>Critical Care</i> , 2021 , 25, 394	10.8	0
145	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
144	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
143	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
142	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
141	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
140	Day-to-day progression of vital-sign circadian rhythms in the intensive care unit. <i>Critical Care</i> , 2021 , 25, 156	10.8	5
139	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
138	Reply to: Trajectories of vital signs in patients with Covid-19. <i>Resuscitation</i> , 2021 , 162, 451-452	4	
137	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
136	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

135	Non-Contact Assessment of Peripheral Artery Haemodynamics Using Infrared Video Thermography. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 276-288	5	5
134	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
133	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
132	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
131	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	
130	Vision-Based Patient Monitoring and Management in Mental Health Settings. <i>Journal of Clinical Engineering</i> , 2021 , 46, 36-43	0.4	2
129	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
128	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
127	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
126	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
125	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
124	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
123	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
122	Home monitoring with technology-supported management in chronic heart failure: a randomised trial. <i>Heart</i> , 2020 , 106, 1573-1578	5.1	8
121	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
120	Wearability Testing of Ambulatory Vital Sign Monitoring Devices: Prospective Observational Cohort Study. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e20214	5.5	10
119	Technology-supported home monitoring in heart failure patients. <i>European Heart Journal</i> , 2020 , 41,	9.5	2
118	Algorithmic comparison of patient-reported blood glucose diary records with meters-in-memory in gestational diabetes. <i>Informatix in Medicine Unlocked</i> , 2020 , 20, 100397	5.3	

117	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
116	Non-contact vital-sign monitoring of patients undergoing haemodialysis treatment. <i>Scientific Reports</i> , 2020 , 10, 18529	4.9	5
115	Trajectories of vital signs in patients with COVID-19. <i>Resuscitation</i> , 2020 , 156, 99-106	4	23
114	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
113	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
112	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
111	The effect of fractional inspired oxygen concentration on early warning score performance: A database analysis. <i>Resuscitation</i> , 2019 , 139, 192-199	4	10
110	SMARHealth 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
109	Estimation of respiratory rate from motion contaminated photoplethysmography signals incorporating accelerometry. <i>Healthcare Technology Letters</i> , 2019 , 6, 19-26	1.9	7
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	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

99	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
98	Non-contact physiological monitoring of preterm infants in the Neonatal Intensive Care Unit. <i>Npj Digital Medicine</i> , 2019 , 2, 128	15.7	37
97	What lies downstream: Cellular oxygen delivery during hemodialysis. <i>Seminars in Dialysis</i> , 2019 , 32, 232-236		1
96	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
95	Artificial intelligence in health care: enabling informed care. <i>Lancet, The</i> , 2018 , 391, 1260	40	7
94	Breathing Rate Estimation From the Electrocardiogram and Photoplethysmogram: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2018 , 11, 2-20	6.4	128
93	Validation of Modelflow Estimates of Cardiac Output in Hemodialysis Patients. <i>Therapeutic Apheresis and Dialysis</i> , 2018 , 22, 337-344	1.9	4
92	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
91	Manual centile-based early warning scores derived from statistical distributions of observational vital-sign data. <i>Resuscitation</i> , 2018 , 129, 55-60	4	23
90	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
89	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
88	Validation of Instantaneous Respiratory Rate Using Reflectance PPG from Different Body Positions. <i>Sensors</i> , 2018 , 18,	3.8	17
87	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
86	Clinical Implications of the NICE 2015 Criteria for Gestational Diabetes Mellitus. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	5
85	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
84	Accelerometry-Based Estimation of Respiratory Rate for Post-Intensive Care Patient Monitoring. <i>IEEE Sensors Journal</i> , 2018 , 18, 4981-4989	4	24
83	Self-Management of Postnatal Hypertension: The SNAP-HT Trial. <i>Hypertension</i> , 2018 , 72, 425-432	8.5	38
82	Digital health system for personalised COPD long-term management. <i>BMC Medical Informatics and Decision Making</i> , 2017 , 17, 19	3.6	49

81	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
80	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
79	Multi-Task Convolutional Neural Network for Patient Detection and Skin Segmentation in Continuous Non-Contact Vital Sign Monitoring 2017 ,		35
78	Non-Contact Monitoring of Respiration in the Neonatal Intensive Care Unit 2017 ,		18
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	Non-contact measurement of oxygen saturation with an RGB camera. <i>Biomedical Optics Express</i> , 2015 , 6, 3320-38	3.5	84
67	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
66	Respiratory rate estimation during triage of children in hospitals. <i>Journal of Medical Engineering and Technology</i> , 2015 , 39, 514-24	1.8	23
65	The relationship between symptoms and blood pressure during maintenance hemodialysis. <i>Hemodialysis International</i> , 2015 , 19, 543-52	1.7	17
64	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

63	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
62	'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
61	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
60	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
59	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
58	Continuous non-contact vital sign monitoring in neonatal intensive care unit. <i>Healthcare Technology Letters</i> , 2014 , 1, 87-91	1.9	106
57	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
56	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
55	Signal quality classification of mobile phone-recorded phonocardiogram signals 2014 ,		13
54	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
53	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
52	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
51	Gaussian process clustering for the functional characterisation of vital-sign trajectories 2013 ,		11
50	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
49	An Extreme Function Theory for Novelty Detection. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 28-37	7.5	25
48	Track and trigger in an emergency department: an observational evaluation study. <i>Emergency Medicine Journal</i> , 2013 , 30, 186-91	1.5	21
47	The digital patient. <i>Clinical Medicine</i> , 2013 , 13, 252-7	1.9	18
46	Testing of Wearable Monitors in a Real-World Hospital Environment: What Lessons Can Be Learnt? 2012 ,		28

45	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
44	Machine learning and software engineering in health informatics 2012 ,		11
43	Probabilistic detection of vital sign abnormality with Gaussian process regression 2012 ,		5
42	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
41	Centile-based early warning scores derived from statistical distributions of vital signs. <i>Resuscitation</i> , 2011 , 82, 1013-8	4	97
40	Novelty Detection with Multivariate Extreme Value Statistics. <i>Journal of Signal Processing Systems</i> , 2011 , 65, 371-389	1.4	62
39	Pinning the tail on the distribution: A multivariate extension to the generalised Pareto distribution 2011 ,		2
38	A comparison of approaches to multivariate extreme value theory for novelty detection 2009 ,		3
37	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
36	Spectral fusion for estimating respiratory rate from the ECG 2009 ,		7
35	Novelty detection with multivariate Extreme Value Theory, part I: A numerical approach to multimodal estimation 2009 ,		4
34	Novelty detection with multivariate Extreme Value Theory, part II: An analytical approach to unimodal estimation 2009 ,		6
33	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
32	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
31	Novelty Detection 2008 ,		7
30	Modelling effects of sotalol on T-wave morphology 2007 ,		3
29	Integrated monitoring and analysis for early warning of patient deterioration. <i>British Journal of Anaesthesia</i> , 2006 , 97, 64-8	5.4	149
28	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

27	Application of independent component analysis in removing artefacts from the electrocardiogram. <i>Neural Computing and Applications</i> , 2006 , 15, 105-116	4.8	127
26	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
25	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
24	Novelty detection for the identification of abnormalities. <i>International Journal of Systems Science</i> , 2000 , 31, 1427-1439	2.3	41
23	Neural Networks for Mobile Robot Localisation using Infra-Red Range Sensing. <i>Neural Computing and Applications</i> , 1999 , 8, 114-134	4.8	1
22	Neural network models for breast cancer prognosis. <i>Neural Computing and Applications</i> , 1998 , 7, 367-375	4.8	24
21	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
20	Neural network prediction of relapse in breast cancer patients. <i>Neural Computing and Applications</i> , 1996 , 4, 105-113	4.8	6
19	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
18	A Probabilistic Resource Allocating Network for Novelty Detection. <i>Neural Computation</i> , 1994 , 6, 270-284	4.9	146
17	On-chip learning with analogue VLSI neural networks. <i>International Journal of Neural Systems</i> , 1993 , 4, 419-26	6.2	7
16	Learning pronunciation with the Visual ear. <i>Neural Computing and Applications</i> , 1993 , 1, 169-175	4.8	2
15	BioSleep: a comprehensive sleep analysis system		4
14	Quantitative assessment of respiratory derivation algorithms		13
13	Method for generating an artificial RR tachogram of a typical healthy human over 24-hours		22
12	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
11	Fusing conventional ECG QRS detection algorithms with an auto-associative neural network for the detection of ectopic beats		1
10	Learning with analogue VLSP MLPs		5

9	A Survey of Mobile Phone Sensing, Self-Reporting, and Social Sharing for Pervasive Healthcare	1
8	Wearability Testing of Ambulatory Vital Sign Monitoring Devices: Prospective Observational Cohort Study (Preprint)	1
7	Early risk assessment for COVID-19 patients from emergency department data using machine learning	4
6	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
5	Automated detection of sleep-boundary times using wrist-worn accelerometry	3
4	Automated identification of abnormal cardiocograms using neural network visualization techniques	4
3	Wearable pulse oximeters in the prompt detection of hypoxaemia and during movement: a diagnostic accuracy study (Preprint)	1
2	A new method to measure inter-breath intervals in infants for the assessment of apnoea and respiratory dynamics	1
1	A Chest Patch for Continuous Vital Sign Monitoring: Clinical Validation Study During Movement and Controlled Hypoxia (Preprint)	1