Peter H Charlton

List of Publications by Year
in descending order

49 papers	1,842 citations	516681 16 h-index	414395 32 g-index
51 all docs	51 docs citations	51 times ranked	1626 citing authors

#	Article	IF	Citations
1	Inaccuracy of pulse oximetry with dark skin pigmentation: clinical implications and need for improvement. British Journal of Anaesthesia, 2023, 130, e33-e36.	3.4	10
2	Photoplethysmography signal processing and synthesis. , 2022, , 69-146.		15
3	Wearable photoplethysmography devices. , 2022, , 401-439.		16
4	Novel Pressure Wave Separation Analysis for Cardiovascular Function Assessment Highlights Major Role of Aortic Root. IEEE Transactions on Biomedical Engineering, 2022, 69, 1707-1716.	4.2	6
5	Wearable Photoplethysmography for Cardiovascular Monitoring. Proceedings of the IEEE, 2022, 110, 355-381.	21.3	48
6	Assessing hemodynamics from the photoplethysmogram to gain insights into vascular age: a review from VascAgeNet. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H493-H522.	3.2	35
7	Establishing best practices in photoplethysmography signal acquisition and processing. Physiological Measurement, 2022, 43, 050301.	2.1	4
8	Estimating central blood pressure from aortic flow: development and assessment of algorithms. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H494-H510.	3.2	19
9	An impedance pneumography signal quality index: Design, assessment and application to respiratory rate monitoring. Biomedical Signal Processing and Control, 2021, 65, 102339.	5.7	34
10	A New Framework to Estimate Breathing Rate From Electrocardiogram, Photoplethysmogram, and Blood Pressure Signals. IEEE Access, 2021, 9, 45832-45844.	4.2	12
11	Relationship between fiducial points on the peripheral and central blood pressure waveforms: rate of rise of the central waveform is a determinant of peripheral systolic blood pressure. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1601-H1608.	3.2	3
12	Leveraging the potential of machine learning for assessing vascular ageing: state-of-the-art and future research. European Heart Journal Digital Health, 2021, 2, 676-690.	1.7	10
13	Blood Pressure Estimation Based on Photoplethysmography: Finger Versus Wrist. , 2021, , .		3
14	Benchmarking Photoplethysmography Peak Detection Algorithms Using the Electrocardiogram Signal as a Reference. , 2021, , .		3
15	Influence of mental stress on the pulse wave features of photoplethysmograms. Healthcare Technology Letters, 2020, 7, 7-12.	3.3	39
16	Screening for Atrial Fibrillation: Improving Efficiency of Manual Review of Handheld Electrocardiograms. Engineering Proceedings, 2020, 2, 78.	0.4	0
17	Acquiring Wearable Photoplethysmography Data in Daily Life: The PPG Diary Pilot Study. Engineering Proceedings, 2020, 2, 80.	0.4	5
18	Acquiring Wearable Photoplethysmography Data in Daily Life: The PPG Diary Pilot Study. , 2020, 2, 80.		9

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19	Screening for Atrial Fibrillation: Improving Efficiency of Manual Review of Handheld Electrocardiograms. Engineering Proceedings, 2020, 2, 78.	0.4	1
20	Modeling arterial pulse waves in healthy aging: a database for in silico evaluation of hemodynamics and pulse wave indexes. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H1062-H1085.	3.2	127
21	Estimation of respiratory rate from motion contaminated photoplethysmography signals incorporating accelerometry. Healthcare Technology Letters, 2019, 6, 19-26.	3.3	11
22	Alzheimerâ€™s Disease: A Step Towards Prognosis Using Smart Wearables. Proceedings (mdpi), 2019, 4, 8.	0.2	3
23	P7 Assessing Vascular Age from Peripheral Pulse Waves: a Study of Existing Indices, and Directions for Future Research. Artery Research, 2019, 25, S49-S49.	0.6	0
24	Assessing mental stress from the photoplethysmogram: a numerical study. Physiological Measurement, 2018, 39, 054001.	2.1	71
25	Breathing Rate Estimation From the Electrocardiogram and Photoplethysmogram: A Review. IEEE Reviews in Biomedical Engineering, 2018, 11, 2-20.	18.0	224
26	P52 ESTIMATING CENTRAL BLOOD PRESSURE FROM MRI DATA USING REDUCED-ORDER COMPUTATIONAL MODELS. Artery Research, 2018, 24, 93.	0.6	0
27	P32 DETERMINING CARDIAC AND ARTERIAL CONTRIBUTIONS TO CENTRAL PULSE PRESSURE. Artery Research, 2018, 24, 88.	0.6	0
28	P164 INDICES TO ASSESS AORTIC STIFFNESS FROM THE FINGER PHOTOPLETHYSMOGRAM: IN SILICO AND IN VIVO TESTING. Artery Research, 2018, 24, 128.	0.6	2
29	Comment on â€˜Numerical assessment and comparison of pulse wave velocity methods aiming at measuring aortic stiffnessâ€™. Physiological Measurement, 2018, 39, 078001.	2.1	2
30	Using Smart Wearables to Monitor Cardiac Ejection. Proceedings (mdpi), 2018, 4, .	0.2	2
31	Automated P-Wave Quality Assessment for Wearable Sensors. Proceedings (mdpi), 2018, 4, .	0.2	1
32	Measuring Vascular Recovery Rate After Exercise. Proceedings (mdpi), 2018, 4, .	0.2	3
33	Extraction of respiratory signals from the electrocardiogram and photoplethysmogram: technical and physiological determinants. Physiological Measurement, 2017, 38, 669-690.	2.1	92
34	Toward a Robust Estimation of Respiratory Rate From Pulse Oximeters. IEEE Transactions on Biomedical Engineering, 2017, 64, 1914-1923.	4.2	197
35	Identifying Hemodynamic Determinants of Pulse Pressure. Hypertension, 2017, 70, 1176-1182.	2.7	40
36	3.6 NON-INVASIVE, MRI-BASED ESTIMATION OF PATIENT-SPECIFIC AORTIC BLOOD PRESSURE USING ONE-DIMENSIONAL BLOOD FLOW MODELLING. Artery Research, 2017, 20, 54.	0.6	0

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37	P121 IDENTIFYING HAEMODYNAMIC DETERMINANTS OF PULSE PRESSURE: AN INTEGRATED NUMERICAL AND PHYSIOLOGICAL APPROACH. Artery Research, 2017, 20, 78.	0.6	0
38	An assessment of algorithms to estimate respiratory rate from the electrocardiogram and photoplethysmogram. Physiological Measurement, 2016, 37, 610-626.	2.1	252
39	A â€œdatathonâ€•model to support cross-disciplinary collaboration. Science Translational Medicine, 2016, 8, 333ps8.	12.4	55
40	Waveform Analysis to Estimate Respiratory Rate. , 2016, , 377-390.		22
41	Measurement of cardiovascular state using attractor reconstruction analysis. , 2015, , .		13
42	Health Informatics via Machine Learning for the Clinical Management of Patients. Yearbook of Medical Informatics, 2015, 24, 38-43.	1.0	18
43	Probabilistic Estimation of Respiratory Rate from Wearable Sensors. Smart Sensors, Measurement and Instrumentation, 2015, , 241-262.	0.6	33
44	Optimising the Windkessel model for cardiac output monitoring during changes in vascular tone. , 2014, 2014, 3759-62.		3
45	Signal Quality Indices for the Electrocardiogram and Photoplethysmogram: Derivation and Applications to Wireless Monitoring. IEEE Journal of Biomedical and Health Informatics, 2014, 19, 1-1.	6.3	215
46	A medical classic: Liza of Lambeth. Clinical Medicine, 2012, 12, 393-394.	1.9	0
47	Photoplethysmographic derivation of respiratory rate: a review of relevant physiology. Journal of Medical Engineering and Technology, 2012, 36, 1-7.	1.4	169
48	A method for assessing the reliability of heart rates obtained from ambulatory ECG. , 2012, , .		3
49	Beyond HRV: Analysis of ECG Signals using Attractor Reconstruction. , 0, , .		10