

Panayiotis A Kyriacou

List of Publications by Year in descending order

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201
papers

3,042
citations

172386
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all docs

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docs citations

206
times ranked

2130
citing authors

#	ARTICLE	IF	CITATIONS
1	Inaccuracy of pulse oximetry with dark skin pigmentation: clinical implications and need for improvement. <i>British Journal of Anaesthesia</i> , 2023, 130, e33-e36.	1.5	10
2	The origin of photoplethysmography. , 2022, , 17-43.		10
3	Photoplethysmography in oxygenation and blood volume measurements. , 2022, , 147-188.		6
4	Photoplethysmography: New trends and future directions. , 2022, , 469-487.		1
5	Photoplethysmography signal processing and synthesis. , 2022, , 69-146.		15
6	Introduction to photoplethysmography. , 2022, , 1-16.		4
7	Photoplethysmography technology. , 2022, , 43-68.		2
8	Advances in Therapeutic Monitoring of Lithium in the Management of Bipolar Disorder. <i>Sensors</i> , 2022, 22, 736.	2.1	14
9	Wearable Photoplethysmography for Cardiovascular Monitoring. <i>Proceedings of the IEEE</i> , 2022, 110, 355-381.	16.4	48
10	Physiological monitoring of stress and major depression: A review of the current monitoring techniques and considerations for the future. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103591.	3.5	11
11	Effects of using different algorithms and fiducial points for the detection of interbeat intervals, and different sampling rates on the assessment of pulse rate variability from photoplethysmography. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 218, 106724.	2.6	14
12	Establishing best practices in photoplethysmography signal acquisition and processing. <i>Physiological Measurement</i> , 2022, 43, 050301.	1.2	4
13	Deep learning models for cuffless blood pressure monitoring from PPG signals using attention mechanism. <i>Biomedical Signal Processing and Control</i> , 2021, 65, 102301.	3.5	81
14	In-vitro spectrometric analysis of hyperlactatemia and lactic acidosis in buffer relating to sepsis. <i>Journal of Near Infrared Spectroscopy</i> , 2021, 29, 53-59.	0.8	3
15	Near-Infrared Spectroscopy (NIRS) in Traumatic Brain Injury (TBI). <i>Sensors</i> , 2021, 21, 1586.	2.1	34
16	Design and Analysis of a Continuous and Non-Invasive Multi-Wavelength Optical Sensor for Measurement of Dermal Water Content. <i>Sensors</i> , 2021, 21, 2162.	2.1	6
17	Comparison of Dual Beam Dispersive and FTNIR Spectroscopy for Lactate Detection. <i>Sensors</i> , 2021, 21, 1891.	2.1	3
18	Wearable, Environmental, and Smartphone-Based Passive Sensing for Mental Health Monitoring. <i>Frontiers in Digital Health</i> , 2021, 3, 662811.	1.5	46

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19	Differential effects of the blood pressure state on pulse rate variability and heart rate variability in critically ill patients. <i>Npj Digital Medicine</i> , 2021, 4, 82.	5.7	22
20	In-silico investigation towards the non-invasive optical detection of blood lactate. <i>Scientific Reports</i> , 2021, 11, 14274.	1.6	1
21	Cuffless blood pressure estimation from PPG signals and its derivatives using deep learning models. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102984.	3.5	43
22	Classification of blood pressure in critically ill patients using photoplethysmography and machine learning. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106222.	2.6	22
23	Photoplethysmography (PPG): state-of-the-art methods and applications. <i>Physiological Measurement</i> , 2021, 42, 100301.	1.2	12
24	Effect of Filtering of Photoplethysmography Signals in Pulse Rate Variability Analysis. , 2021, 2021, 5500-5503.		6
25	Recurrent Neural Network Models for Blood Pressure Monitoring Using PPG Morphological Features. , 2021, 2021, 1865-1868.		5
26	In-Vitro Investigation of Flow Profiles in Arteries Using the Photoplethysmograph. , 2021, 2021, 7211-7214.		0
27	Effects of Contact Pressure in Reflectance Photoplethysmography in an In Vitro Tissue-Vessel Phantom. <i>Sensors</i> , 2021, 21, 8421.	2.1	12
28	Identification and Quantitative Determination of Lactate Using Optical Spectroscopy”Towards a Noninvasive Tool for Early Recognition of Sepsis. <i>Sensors</i> , 2020, 20, 5402.	2.1	11
29	Comparison of 1.5â€T and 3â€T MRI hippocampus texture features in the assessment of Alzheimer's disease. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102098.	3.5	6
30	Heart Rate Variability (HRV) and Pulse Rate Variability (PRV) for the Assessment of Autonomic Responses. <i>Frontiers in Physiology</i> , 2020, 11, 779.	1.3	87
31	Comparison of wavelength selection methods for in-vitro estimation of lactate: a new unconstrained, genetic algorithm-based wavelength selection. <i>Scientific Reports</i> , 2020, 10, 16905.	1.6	12
32	Fabricating Novel PDMS Vessels for Phantoms in Photoplethysmography Investigations. , 2020, 2020, 4458-4461.		2
33	Cuffless and Continuous Blood Pressure Estimation From PPG Signals Using Recurrent Neural Networks. , 2020, 2020, 4269-4272.		23
34	Investigations into the Effects of pH on Quantitative Measurements of Lactate in Biological Media Using ATR-FTIR Spectroscopy. <i>Molecules</i> , 2020, 25, 3695.	1.7	7
35	Heart Rate Variability and Multi-Site Pulse Rate Variability for the Assessment of Autonomic Responses to Whole-Body Cold Exposure. , 2020, 2020, 2618-2621.		1
36	Novel Polydimethylsiloxane (PDMS) Pulsatile Vascular Tissue Phantoms for the In-Vitro Investigation of Light Tissue Interaction in Photoplethysmography. <i>Sensors</i> , 2020, 20, 4246.	2.1	10

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37	Non-Invasive Techniques for Multimodal Monitoring in Traumatic Brain Injury: Systematic Review and Meta-Analysis. <i>Journal of Neurotrauma</i> , 2020, 37, 2445-2453.	1.7	25
38	Pulse rate variability in cardiovascular health: a review on its applications and relationship with heart rate variability. <i>Physiological Measurement</i> , 2020, 41, 07TR01.	1.2	72
39	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. <i>Journal of Clinical Medicine</i> , 2020, 9, 723.	1.0	89
40	Investigating the origin of photoplethysmography using a multiwavelength Monte Carlo model. <i>Physiological Measurement</i> , 2020, 41, 084001.	1.2	31
41	Assessment of Alzheimer's Disease Based on Texture Analysis of the Entorhinal Cortex. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 176.	1.7	23
42	Fluid structure interaction study of stenosed carotid artery considering the effects of blood pressure. <i>International Journal of Engineering Science</i> , 2020, 154, 103341.	2.7	28
43	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. <i>Journal of Clinical Medicine</i> , 2020, 9, 1203.	1.0	32
44	Near infrared spectrometric investigation of lactate in a varying pH buffer. <i>Journal of Near Infrared Spectroscopy</i> , 2020, 28, 328-333.	0.8	7
45	Photoplethysmography in postoperative monitoring of deep inferior epigastric perforator (DIEP) free flaps. <i>Physiological Measurement</i> , 2020, 41, 124001.	1.2	6
46	A review of machine learning techniques in photoplethysmography for the non-invasive cuff-less measurement of blood pressure. <i>Biomedical Signal Processing and Control</i> , 2020, 58, 101870.	3.5	145
47	In silico and in vivo investigations using an endocavitary photoplethysmography sensor for tissue viability monitoring. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	4
48	Investigating the influence of blood-vessel depth and sensor location on the light-tissue interactions using a Monte Carlo model. <i>International Journal of Innovative Research in Physics</i> , 2020, 2, 31-35.	0.1	1
49	Acquiring Wearable Photoplethysmography Data in Daily Life: The PPG Diary Pilot Study. <i>Engineering Proceedings</i> , 2020, 2, 80.	0.4	5
50	Extracting Explainable Assessments of Alzheimer's disease via Machine Learning on brain MRI imaging data. , 2020, , .		10
51	Acquiring Wearable Photoplethysmography Data in Daily Life: The PPG Diary Pilot Study. , 2020, 2, 80.		9
52	A Method for Rapid, Reliable, and Low-Volume Measurement of Lithium in Blood for Use in Bipolar Disorder Treatment Management. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 130-137.	2.5	13
53	A Novel Photoplethysmography Sensor for Vital Signs Monitoring from the Human Trachea. <i>Biosensors</i> , 2019, 9, 119.	2.3	9
54	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. <i>Journal of Clinical Medicine</i> , 2019, 8, 1827.	1.0	65

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55	Perfusion Changes at the Forehead Measured by Photoplethysmography during a Head-Down Tilt Protocol. <i>Biosensors</i> , 2019, 9, 71.	2.3	14
56	Review of Modern Techniques for the Assessment of Skin Hydration. <i>Cosmetics</i> , 2019, 6, 19.	1.5	28
57	Monte Carlo Analysis of Optical Interactions in Reflectance and Transmittance Finger Photoplethysmography. <i>Sensors</i> , 2019, 19, 789.	2.1	48
58	A Pulsatile Optical Tissue Phantom for the Investigation of Light-Tissue Interaction in Reflectance Photoplethysmography. , 2019, 2019, 3204-3207.		3
59	The Sensing Endotracheal Tube. , 2019, 2019, 3217-3220.		0
60	Estimating the Dependence of Differential Pathlength Factor on Blood Volume and Oxygen Saturation using Monte Carlo method. , 2019, 2019, 75-78.		2
61	Computational fluid dynamic study on effect of Carreau-Yasuda and Newtonian blood viscosity models on hemodynamic parameters. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2019, 19, 465-477.	0.1	11
62	Optical Techniques for Blood and Tissue Oxygenation. , 2019, , 461-472.		16
63	Quantitative MRI Brain Studies in Mild Cognitive Impairment and Alzheimer's Disease: A Methodological Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 97-111.	13.1	80
64	In vitro validation of measurement of volume elastic modulus using photoplethysmography. <i>Medical Engineering and Physics</i> , 2018, 52, 10-21.	0.8	3
65	Design and Development of a Modular, Multichannel Photoplethysmography System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 1954-1965.	2.4	37
66	In vivo investigation of ear canal pulse oximetry during hypothermia. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 97-107.	0.7	37
67	Photoplethysmography for blood volumes and oxygenation changes during intermittent vascular occlusions. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 447-455.	0.7	40
68	Evaluation of the Linear Relationship Between Pulse Arrival Time and Blood Pressure in ICU Patients: Potential and Limitations. <i>Frontiers in Physiology</i> , 2018, 9, 1848.	1.3	16
69	Use of Transient Time Response as a Measure to Characterize Phononic Crystal Sensors. <i>Sensors</i> , 2018, 18, 3618.	2.1	21
70	Assessment of the Complex Refractive Indices of <i>Xenopus Laevis</i> Sciatic Nerve for the Optimization of Optical (NIR) Neurostimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 2306-2314.	2.7	4
71	The effects of optical sensor-tissue separation in endocavitary photoplethysmography. <i>Physiological Measurement</i> , 2018, 39, 075001.	1.2	4
72	Photoplethysmography for Quantitative Assessment of Sympathetic Nerve Activity (SNA) During Cold Stress. <i>Frontiers in Physiology</i> , 2018, 9, 1863.	1.3	23

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73	Methodology for rapid assessment of blood lithium levels in ultramicro volumes of blood plasma for applications in personal monitoring of patients with bipolar mood disorder. Journal of Biomedical Optics, 2018, 23, 1.	1.4	7
74	Investigating optical path and differential pathlength factor in reflectance photoplethysmography for the assessment of perfusion. Journal of Biomedical Optics, 2018, 23, 1.	1.4	25
75	Comparison of non-invasive peripheral venous saturations with venous blood co-oximetry. Journal of Clinical Monitoring and Computing, 2017, 31, 1213-1220.	0.7	6
76	Fully-disposable multilayered phononic crystal liquid sensor with symmetry reduction and a resonant cavity. Measurement: Journal of the International Measurement Confederation, 2017, 102, 20-25.	2.5	44
77	Photoplethysmography for the Assessment of Haemorheology. Scientific Reports, 2017, 7, 1406.	1.6	24
78	Dual pO ₂ /pCO ₂ fibre optic sensing film. Analyst, The, 2017, 142, 1711-1719.	1.7	11
79	Photoplethysmography for an independent measure of pulsatile pressure under controlled flow conditions. Physiological Measurement, 2017, 38, 87-100.	1.2	7
80	Review of Protocols Used in Ultrasound Thrombolysis. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 2447-2469.	0.7	6
81	Investigating optical path in reflectance pulse oximetry using a multilayer Monte Carlo model. Proceedings of SPIE, 2017, , .	0.8	2
82	Development of an intraluminal intestinal photoplethysmography sensor. , 2017, 2017, 1840-1843.		3
83	Towards an optimized tetrapolar electrical impedance lithium detection probe for bipolar disorder: A simulation study. , 2017, , .		1
84	Differential Phononic Crystal Sensor: Towards a Temperature Compensation Mechanism for Field Applications Development. Sensors, 2017, 17, 1960.	2.1	36
85	On the merits of tetrapolar impedance spectroscopy for monitoring lithium concentration variations in human blood plasma. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	2.5	9
86	Cavity Resonance Sensor With Disposable Analyte Container for Point of Care Testing. IEEE Sensors Journal, 2016, 16, 6727-6732.	2.4	10
87	Monte Carlo investigation of the effect of blood volume and oxygen saturation on optical path in reflectance pulse oximetry. Biomedical Physics and Engineering Express, 2016, 2, 065018.	0.6	16
88	An Overview of Quantitative Magnetic Resonance Imaging Analysis Studies in the Assessment of Alzheimer's Disease. IFMBE Proceedings, 2016, , 281-286.	0.2	2
89	Determining the Optimal Site for Imaging the Microcirculation in Neonates Using Sidestream Dark Field Imaging. IFMBE Proceedings, 2016, , 378-381.	0.2	0
90	Fiber-optic fluorescence-quenching oxygen partial pressure sensor using platinum octaethylporphyrin. Applied Optics, 2016, 55, 5603.	2.1	19

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91	Photoplethysmography: Towards a non-invasive pressure measurement technique. , 2016, 2016, 611-614.		3
92	A novel approach to transcutaneous localization of blood vessels using a dynamically reconfigurable electrode (DRE) array. , 2016, , .		1
93	Comparison of NIRS, laser Doppler flowmetry, photoplethysmography, and pulse oximetry during vascular occlusion challenges. Physiological Measurement, 2016, 37, 503-514.	1.2	26
94	Method for producing angled optical fiber tips in the laboratory. Optical Engineering, 2016, 55, 026120.	0.5	10
95	Investigation of peripheral photoplethysmographic morphology changes induced during a hand-elevation study. Journal of Clinical Monitoring and Computing, 2016, 30, 727-736.	0.7	32
96	OC-095 Performance of a novel optical sensor for intraoperative assessment of intestinal viability – “proof of principle” study. Gut, 2015, 64, A47.2-A48.	6.1	4
97	Estimation of instantaneous venous blood saturation using the photoplethysmograph waveform. Physiological Measurement, 2015, 36, 2203-2214.	1.2	12
98	Differential pathlength factor estimation for brain-like tissue from a single-layer Monte Carlo model. , 2015, 2015, 3279-82.		4
99	Investigation of photoplethysmography, laser doppler flowmetry and near infrared spectroscopy during induced thermal stress. , 2015, 2015, 6417-20.		2
100	A fiberoptic sensor for tissue carbon dioxide monitoring. , 2015, 2015, 7942-5.		4
101	Investigation of photoplethysmography and arterial blood oxygen saturation from the ear-canal and the finger under conditions of artificially induced hypothermia. , 2015, 2015, 7954-7.		10
102	Accuracy of reflectance photoplethysmography on detecting cuff-induced vascular occlusions. , 2015, 2015, 861-4.		2
103	Intraoperative monitoring of intestinal viability: Evaluation of a new combined sensor. , 2015, 2015, 5126-9.		0
104	The effect of vascular changes on the photoplethysmographic signal at different hand elevations. Physiological Measurement, 2015, 36, 425-440.	1.2	30
105	Venous pooling and drainage affects photoplethysmographic signals at different vertical hand positions. , 2015, , .		1
106	Evaluation of the optical interference in a combined measurement system used for assessment of tissue blood flow. , 2015, , .		0
107	Reflectance Photoplethysmography as Noninvasive Monitoring of Tissue Blood Perfusion. IEEE Transactions on Biomedical Engineering, 2015, 62, 2187-2195.	2.5	71
108	Spectrophotometric analysis of lithium carbonate used for bipolar disorder. Biomedical Optics Express, 2015, 6, 1067.	1.5	5

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109	Reflectance near-infrared measurements for determining changes in skin barrier function and scattering in relation to moisturizer application. <i>Journal of Biomedical Optics</i> , 2015, 20, 095008.	1.4	7
110	Investigation of photoplethysmographs from the anterior fontanelle of neonates. <i>Physiological Measurement</i> , 2014, 35, 1961-1973.	1.2	5
111	Comparison of methods for determining pulse arrival time from Doppler and photoplethysmography signals. , 2014, 2014, 3809-12.		11
112	Investigating skin barrier function utilizing reflectance NIR Spectroscopy. , 2014, 2014, 3735-8.		2
113	Investigation of photoplethysmography and Near Infrared Spectroscopy for the assessment of tissue blood perfusion. , 2014, 2014, 5361-4.		0
114	Optical analysis of lithium carbonate: Towards the development of a portable lithium blood level analyzer for bipolar disorder patients. , 2014, 2014, 2077-80.		1
115	Use of reflectance near-infrared spectroscopy to investigate the effects of daily moisturizer application on skin optical response and barrier function. <i>Journal of Biomedical Optics</i> , 2014, 19, 087007.	1.4	8
116	Investigation of Pulse Transit Times utilizing multisite reflectance photoplethysmography under conditions of artificially induced peripheral vasoconstriction. , 2014, 2014, 1965-8.		12
117	Photoplethysmography and electrocardiography for real time evaluation of pulse transit time A diagnostic marker of peripheral vascular diseases. , 2014, , .		2
118	The human ear canal: investigation of its suitability for monitoring photoplethysmographs and arterial oxygen saturation. <i>Physiological Measurement</i> , 2014, 35, 111-128.	1.2	42
119	Theory of Dynamic Pulsatile Spectroscopy for photoplethysmographic signals analysis. , 2013, 2013, 2652-5.		0
120	Improved measurement technique for the characterization of organic and inorganic phase change materials using the T-history method. <i>Applied Energy</i> , 2013, 109, 433-440.	5.1	36
121	Design and development of a novel multi-channel photoplethysmographic research system. , 2013, , .		24
122	Evaluation of a combined reflectance photoplethysmography and laser Doppler flowmetry surface probe. , 2013, 2013, 1728-31.		2
123	Experimental and numerical investigations of the optical and thermal aspects of a PCM-glazed unit. <i>Energy and Buildings</i> , 2013, 61, 239-249.	3.1	105
124	Direct Pulse Oximetry Within the Esophagus, on the Surface of Abdominal Viscera, and on Free Flaps. <i>Anesthesia and Analgesia</i> , 2013, 117, 824-833.	1.1	29
125	Pilot investigation of anterior fontanelle photoplethysmographic signals and their suitability in estimating arterial oxygen saturation. , 2013, 2013, 2656-9.		1
126	Effect of respiratory-induced intensity variations on finger SpO ₂ measurements in volunteers. , 2013, 2013, 3937-40.		2

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127	Free flap pulse oximetry utilizing reflectance photoplethysmography. , 2013, 2013, 4046-9.		6
128	Comparing the rates of absorption and weight loss during a desorption test using near infrared spectroscopy. Skin Research and Technology, 2013, 19, 137-144.	0.8	9
129	Pulse oximetry of body cavities and organs. , 2013, 2013, 2664-7.		1
130	Investigation of finger reflectance photoplethysmography in volunteers undergoing a local sympathetic stimulation. Journal of Physics: Conference Series, 2013, 450, 012012.	0.3	12
131	In vivo optical investigation of short term skin water contact and moisturizer application using NIR spectroscopy. , 2013, 2013, 2392-5.		5
132	Evaluation of Electrical and Optical Plethysmography Sensors for Noninvasive Monitoring of Hemoglobin Concentration. Sensors, 2012, 12, 1816-1826.	2.1	20
133	Development and in vitro evaluation of an artificial spinal disc loading cell. , 2012, 2012, 4887-90.		0
134	Development of a reflectance photoplethysmographic sensor used for the assessment of perfusion of free jejunum flaps: A case report. , 2012, , .		1
135	Estimation of Venous oxygenation saturation using the finger Photoplethysmograph (PPG) waveform. , 2012, 2012, 2905-8.		5
136	In vitro spectrophotometric near infrared measurements of skin absorption and dehydration. , 2012, 2012, 6044-7.		3
137	Modulation of finger photoplethysmographic traces during forced respiration: Venous blood in motion?. , 2012, 2012, 3644-7.		7
138	Photoplethysmographic signals and blood oxygen saturation values during artificial hypothermia in healthy volunteers. Physiological Measurement, 2012, 33, 2065-2078.	1.2	13
139	Heart ablation using a planar rectangular high intensity ultrasound transducer and MRI guidance. Ultrasonics, 2012, 52, 821-829.	2.1	8
140	A new fibre optic pulse oximeter probe for monitoring splanchnic organ arterial blood oxygen saturation. Computer Methods and Programs in Biomedicine, 2012, 108, 883-888.	2.6	9
141	Investigation of photoplethysmographic signals and blood oxygen saturation values on healthy volunteers during cuff-induced hypoperfusion using a multimode PPG/SpO2 sensor. Medical and Biological Engineering and Computing, 2012, 50, 575-583.	1.6	31
142	The effects of thermistor linearization techniques on the T-history characterization of phase change materials. Applied Thermal Engineering, 2012, 44, 78-84.	3.0	17
143	Heart Rate Variability and Cardiovascular Dynamic Changes during Local Anesthesia. , 2012, , 221-240.		0
144	Empirical mode decomposition analysis of HRV data from patients undergoing local anaesthesia (brachial plexus block). Physiological Measurement, 2011, 32, 483-497.	1.2	6

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145	HRV analysis in local anesthesia using Continuous Wavelet Transform (CWT). , 2011, 2011, 4808-11.		2
146	Instantaneous venous oxygenation estimation using the Photoplethysmograph (PPG) waveform. Journal of Physics: Conference Series, 2011, 307, 012018.	0.3	2
147	Photoplethysmographic sensors for perfusion measurements in spinal cord tissue. Journal of Physics: Conference Series, 2011, 307, 012016.	0.3	1
148	Comparison of thermistor linearization techniques for accurate temperature measurement in phase change materials. Journal of Physics: Conference Series, 2011, 307, 012009.	0.3	1
149	MyCare Card Development: Portable GUI Framework for the Personal Electronic Health Record Device. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 66-73.	3.6	5
150	Investigation of photoplethysmographic signals and blood oxygen saturation values obtained from human splanchnic organs using a fiber optic sensor. Journal of Clinical Monitoring and Computing, 2011, 25, 245-255.	0.7	10
151	Electro-optical plethysmography for non-invasive estimation of hemoglobin concentration. , 2011, 2011, 4348-51.		2
152	Development of a reflectance photoplethysmographic sensor used for the assessment of free flap perfusion. , 2011, 2011, 4006-9.		2
153	Investigation of pulse oximeter failure rates during artificial hypoperfusion utilising a custom made multimode pulse oximetry sensor. , 2011, 2011, 4352-5.		1
154	Development of an optoelectronic sensor for the investigation of photoplethysmographic signals from the anterior fontanel of the newborn. , 2011, 2011, 18-21.		5
155	Photoplethysmographic measurements from the esophagus using a new fiber-optic reflectance sensor. Journal of Biomedical Optics, 2011, 16, 077005.	1.4	5
156	An In Vivo Investigation of Photoplethysmographic Signals and Preliminary Pulse Oximetry Estimation from the Bowel Using a New Fiberoptic Sensor. Anesthesia and Analgesia, 2011, 112, 1104-1109.	1.1	5
157	Sensors & their Applications XVI. Journal of Physics: Conference Series, 2011, 307, 011001.	0.3	0
158	Optical measurement of blood flow changes in spinal cord injury. Journal of Physics: Conference Series, 2010, 238, 012060.	0.3	0
159	Cerebral Arterial Oxygen Saturation Measurements Using a Fiber-Optic Pulse Oximeter. Neurocritical Care, 2010, 13, 278-285.	1.2	12
160	Measuring venous oxygenation using the photoplethysmograph waveform. Journal of Clinical Monitoring and Computing, 2010, 24, 295-303.	0.7	41
161	Measurement of splanchnic photoplethysmographic signals using a new reflectance fiber optic sensor. Journal of Biomedical Optics, 2010, 15, 027012.	1.4	13
162	Development of a personal electronic health record card in the United Kingdom. , 2010, 2010, 4431-5.		4

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163	Calculation of photon path changes due to scatter in Monte Carlo simulations. , 2010, 2010, 4959-62.		5
164	Beer-lambert law along non-linear mean light pathways for the rational analysis of Photoplethysmography. Journal of Physics: Conference Series, 2010, 238, 012061.	0.3	17
165	Preliminary assessment of abdominal organ perfusion utilizing a fiber optic photoplethysmographic sensor. , 2010, 2010, 1020-3.		1
166	Evaluation of a multimode photoplethysmographic sensor during cuff-induced hypoperfusion. , 2010, 2010, 1024-7.		3
167	In-Vivo evaluation of a fiber-optic splanchnic photoplethysmographic sensor during open laparotomy. , 2009, 2009, 1505-8.		1
168	Time-frequency analysis of HRV data from locally anesthetized patients. , 2009, 2009, 1824-7.		6
169	Evaluation of a fiber-optic esophageal pulse oximeter. , 2009, 2009, 1509-12.		3
170	Investigation of photoplethysmographic changes using a static compression model of spinal cord injury. , 2009, 2009, 1493-6.		5
171	A novel non-invasive trans-reflectance photoplethysmographic probe for use in cases of low peripheral blood perfusion. , 2009, 2009, 1489-92.		3
172	Measurements of cerebral arterial oxygen saturation using a fiber-optic pulse oximeter. , 2009, , .		2
173	Measurement of photoplethysmographic signals in human abdominal organs. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1027-1031.	2.5	2
174	Pilot investigation of photoplethysmographic signals and blood oxygen saturation values during blood pressure cuff-induced hypoperfusion. Measurement: Journal of the International Measurement Confederation, 2009, 42, 1001-1005.	2.5	20
175	Empirical mode decomposition (EMD) analysis of HRV data from locally anesthetized patients. , 2009, 2009, 2244-7.		10
176	Penetration of high intensity focused ultrasound ex vivo and in vivo rabbit brain using MR imaging. , 2009, , .		0
177	An oesophageal pulse oximetry system utilising a fibre-optic probe. Journal of Physics: Conference Series, 2009, 178, 012021.	0.3	3
178	Investigation of their-vitroloading on an artificial spinal disk prosthesis. Journal of Physics: Conference Series, 2009, 178, 012023.	0.3	0
179	Preliminary evaluation of a new fibre-optic cerebral oximetry system. Physiological Measurement, 2008, 29, 1383-1396.	1.2	15
180	A Pilot Study of Neonatal and Pediatric Esophageal Pulse Oximetry. Anesthesia and Analgesia, 2008, 107, 905-908.	1.1	10

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181	Pulse oximetry and photoplethysmographic waveform analysis of the esophagus and bowel. Current Opinion in Anaesthesiology, 2008, 21, 779-783.	0.9	17
182	Optimal spacing between transmitting and receiving optical fibres in reflectance pulse oximetry. Journal of Physics: Conference Series, 2007, 85, 012030.	0.3	6
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