

Paul P Breen

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.

56
papers

560
citations

14
h-index

22
g-index

61
ext. papers

709
ext. citations

2.6
avg, IF

3.85
L-index

#	Paper	IF	Citations
56	Extending the viability of acute brain slices. <i>Scientific Reports</i> , 2014 , 4, 5309	4.9	47
55	BION microstimulators: a case study in the engineering of an electronic implantable medical device. <i>Medical Engineering and Physics</i> , 2011 , 33, 7-16	2.4	47
54	A pilot evaluation of a neuromuscular electrical stimulation (NMES) based methodology for the prevention of venous stasis during bed rest. <i>Medical Engineering and Physics</i> , 2010 , 32, 349-55	2.4	45
53	A Comparison of Reflective Photoplethysmography for Detection of Heart Rate, Blood Oxygen Saturation, and Respiration Rate at Various Anatomical Locations. <i>Sensors</i> , 2019 , 19,	3.8	35
52	Peripheral vascular disease assessment in the lower limb: a review of current and emerging non-invasive diagnostic methods. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 61	4.1	26
51	Evaluation of a single accelerometer based biofeedback system for real-time correction of neck posture in computer users. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 7269-72	0.9	25
50	Calcium Imaging of AM Dyes Following Prolonged Incubation in Acute Neuronal Tissue. <i>PLoS ONE</i> , 2016 , 11, e0155468	3.7	25
49	A programmable and portable NMES device for drop foot correction and blood flow assist applications. <i>Medical Engineering and Physics</i> , 2009 , 31, 400-8	2.4	24
48	Patient tolerance of neuromuscular electrical stimulation (NMES) in the presence of orthopaedic implants. <i>Medical Engineering and Physics</i> , 2011 , 33, 56-61	2.4	21
47	Rod Photoreceptor Activation Alone Defines the Release of Dopamine in the Retina. <i>Current Biology</i> , 2019 , 29, 763-774.e5	6.3	19
46	Electronic stimulators for surface neural prosthesis. <i>Journal of Automatic Control</i> , 2008 , 18, 25-33		19
45	Hemodynamic effects of habituation to a week-long program of neuromuscular electrical stimulation. <i>Medical Engineering and Physics</i> , 2012 , 34, 459-65	2.4	18
44	Venous emptying from the foot: influences of weight bearing, toe curls, electrical stimulation, passive compression, and posture. <i>Journal of Applied Physiology</i> , 2010 , 109, 1045-52	3.7	18
43	Electro-resistive bands for non-invasive cardiac and respiration monitoring, a feasibility study. <i>Physiological Measurement</i> , 2015 , 36, N35-49	2.9	15
42	Peripheral tactile sensory perception of older adults improved using subsensory electrical noise stimulation. <i>Medical Engineering and Physics</i> , 2016 , 38, 822-5	2.4	14
41	A Wearable Contactless Sensor Suitable for Continuous Simultaneous Monitoring of Respiration and Cardiac Activity. <i>Journal of Sensors</i> , 2015 , 2015, 1-6	2	14
40	The anatomy and physiology of the venous foot pump. <i>Anatomical Record</i> , 2010 , 293, 370-8	2.1	14

39	A new paradigm of electrical stimulation to enhance sensory neural function. <i>Medical Engineering and Physics</i> , 2014 , 36, 1088-91	2.4	13
38	Continuous Vital Monitoring During Sleep and Light Activity Using Carbon-Black Elastomer Sensors. <i>Sensors</i> , 2020 , 20,	3.8	12
37	Comparison of single- and two-channel neuromuscular electrical stimulation sites for enhancing venous return. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012 , 20, 389-94	4.8	11
36	Stimulation and Repair of Peripheral Nerves Using Bioadhesive Graft-Antenna. <i>Advanced Science</i> , 2019 , 6, 1801212	13.6	7
35	Prolonged Incubation of Acute Neuronal Tissue for Electrophysiology and Calcium-imaging. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	7
34	Braincubator: an incubation system to extend brain slice lifespan for use in neurophysiology. <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, 4864-7	0.9	7
33	A hemodynamic study of popliteal vein blood flow: the effect of bed rest and electrically elicited calf muscle contractions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2149-52	0.9	7
32	Vibrotactile sensitivity of patients with HIV-related sensory neuropathy: An exploratory study. <i>Brain and Behavior</i> , 2019 , 9, e01184	3.4	6
31	Popliteal blood flow and plantar flexion force due to neuromuscular electrical stimulation (NMES) of the calf muscle pump are strongly associated with NMES intensity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3051-4	0.9	5
30	Detecting electroporation by assessing the time constants in the exponential response of human skin to voltage controlled impulse electrical stimulation. <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, 1255-8	0.9	4
29	A haemodynamic study of the physiological mechanisms of the venous pump in the healthy human foot. <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, 1411-4	0.9	4
28	Temporal Integration of Tactile Inputs from Multiple Sites. <i>Lecture Notes in Computer Science</i> , 2016 , 204-213	2.3	4
27	Impact of galvanic vestibular stimulation-induced stochastic resonance on the output of the vestibular system: A systematic review. <i>Brain Stimulation</i> , 2020 , 13, 533-535	5.1	4
26	Low-power transcutaneous current stimulator for wearable applications. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 118	4.1	3
25	Proximally applied subsensory electrical noise stimulation reduces variance in action potential timing and enhances sensory perception 2013 ,		3
24	New technology-based functional assessment tools should avoid the weaknesses and proliferation of manual functional assessments. <i>Journal of Clinical Epidemiology</i> , 2013 , 66, 619-32	5.7	3
23	Quantification of a Low-Cost Stretchable Conductive Sensor Using an Expansion/Contraction Simulator Machine: A Step towards Validation of a Noninvasive Cardiac and Respiration Monitoring Prototype. <i>Machines</i> , 2017 , 5, 22	2.9	3
22	Sleep apnoea episodes recognition by a committee of ELM classifiers from ECG signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7675-8	0.9	3

21	The influence of orthopaedic implants on patient tolerance of neuromuscular electrical stimulation (NMES). <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010</i> , 2010, 5823-6	0.9	3
20	A programmable and portable NMES device for drop foot correction and blood flow assist applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 2416-9		3
19	Measurement of perception thresholds for electrical noise stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017</i> , 2017, 2166-2169	0.9	2
18	Hemodynamic monitor for rapid, cost-effective assessment of peripheral vascular function. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 4795-8	0.9	2
17	Hemodynamic performance of NMES in the early post operative period following orthopaedic surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011</i> , 2011, 7630-3	0.9	2
16	Identifying changes in human skin electrical properties due to long-term NeuroMuscular Electrical Stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 326-9	0.9	2
15	The effect of surface neuromuscular electrical stimulation and compression hosiery applied to the lower limb, on the comfort and blood flow of healthy subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 703-6	0.9	2
14	Clinician Perspectives on the Design and Application of Wearable Cardiac Technologies for Older Adults: Qualitative Study. <i>JMIR Aging, 2020</i> , 3, e17299	4.8	2
13	Peripheral Sensory Function Enhanced Using Stochastic Noise Stimulation. <i>FASEB Journal, 2012</i> , 26, 865-8	4.5	2
12	Groundtruth: A Matlab GUI for Artifact and Feature Identification in Physiological Signals. <i>Frontiers in Physiology, 2019</i> , 10, 850	4.6	1
11	Arbitrary waveform constant current stimulator for long-term wearable applications. <i>Medical Engineering and Physics, 2019</i> , 68, 108-115	2.4	1
10	Polymer sensor embedded, IOT enabled t-shirt for long-term monitoring of sleep disordered breathing 2019 ,		1
9	HeMo: Towards an inexpensive wearable peripheral blood flow monitoring device 2015 ,		1
8	Doppler ultrasound measurements of venous return in the popliteal vein. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 978-81		1
7	Characterisation of Morphic Sensors for Body Volume and Shape Applications. <i>Sensors, 2019</i> , 20,	3.8	1
6	Comparison of Bi-Wavelength and Tri-Wavelength Photoplethysmography Sensors Placed on the Forehead 2019 ,		1
5	Stochastic Noise Application for the Assessment of Medial Vestibular Nucleus Neuron Sensitivity In Vitro. <i>Journal of Visualized Experiments, 2019</i> ,	1.6	1
4	Fine-wire electromyography response to neuromuscular electrical stimulation in the triceps surae. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015</i> , 23, 244-9	4.8	

- 3 Evaluation of the VPT-60 to measure peripheral nerve sensitivity. *FASEB Journal*, **2013**, 27, 873.6 0.9
- 2 VPT-60: A novel approach to monitoring peripheral nerve sensitivity. *FASEB Journal*, **2013**, 27, 1217.29 0.9
- 1 Stochastic and sinusoidal electrical stimuli increase the irregularity and gain of Type A and B medial vestibular nucleus neurons, in vitro. *Journal of Neuroscience Research*, **2021**, 99, 3066-3083 4.4