

Benjamin W Metcalfe

List of Publications by Year in descending order

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28
papers

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1307594

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29
all docs

29
docs citations

29
times ranked

158
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Feedback for Upper-Limb Prostheses: Opportunities and Barriers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 738-747.	4.9	7
2	The Use of the Velocity Selective Recording Technique to Reveal the Excitation Properties of the Ulnar Nerve in Pigs. Sensors, 2022, 22, 58.	3.8	6
3	Source Localisation Using Wavefield Correlation-Enhanced Particle Swarm Optimisation. Robotics, 2022, 11, 52.	3.5	0
4	The Design of a Low Noise, Multi-Channel Recording System for Use in Implanted Peripheral Nerve Interfaces. Sensors, 2022, 22, 3450.	3.8	0
5	Tutorial: a guide to techniques for analysing recordings from the peripheral nervous system. Journal of Neural Engineering, 2022, 19, 042001.	3.5	6
6	Array processing of neural signals recorded from the peripheral nervous system for the classification of action potentials. Journal of Neuroscience Methods, 2021, 347, 108967.	2.5	14
7	A Cost-Effective Pulse Oximeter Designed in Response to the COVID-19 Pandemic. Journal of Open Hardware, 2021, 5, .	0.5	3
8	Particle Swarm Optimization—An Adaptation for the Control of Robotic Swarms. Robotics, 2021, 10, 58.	3.5	15
9	Interferential Current Stimulation for Non-Invasive Somatotopic Sensory Feedback for Upper-Limb Prosthesis: Simulation Results using a Computable Human Phantom. , 2021, , .		3
10	Microfluidics Integration into Low-Noise Multi-Electrode Arrays. Micromachines, 2021, 12, 727.	2.9	5
11	Dynamic Photo-Voltaic Arrays for Marine Applications using Hardware-in-the-Loop Simulation Control. , 2021, , .		0
12	Wearable Assistive Robotics: A Perspective on Current Challenges and Future Trends. Sensors, 2021, 21, 6751.	3.8	15
13	Towards effective energy harvesting from stacks of soil microbial fuel cells. Journal of Power Sources, 2021, 515, 230591.	7.8	7
14	Power generation and autonomous glucose detection with an integrated array of abiotic fuel cells on a printed circuit board. Journal of Power Sources, 2020, 472, 228530.	7.8	14
15	Development of a functional stack of soil microbial fuel cells to power a water treatment reactor: From the lab to field trials in North East Brazil. Applied Energy, 2020, 278, 115680.	10.1	36
16	A dataset of action potentials recorded from the L5 dorsal rootlet of rat using a multiple electrode array. Data in Brief, 2020, 33, 106561.	1.0	2
17	A Functional Electrical Stimulation System of High-Density Electrodes With Auto-Calibration for Optimal Selectivity. IEEE Sensors Journal, 2020, 20, 8833-8843.	4.7	7
18	An Assistive System for Upper Limb Motion Combining Functional Electrical Stimulation and Robotic Exoskeleton. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 260-268.	3.2	14

#	ARTICLE	IF	CITATIONS
19	An Ultra-Sensitive Biosensor to Investigate Random Telegraph Noise in Human Breast Cancer Cells. , 2020, 60, .		1
20	An Analytical Comparison of Locally-Connected Reconfigurable Neural Network Architectures Using a C. elegans Locomotive Model. Computers, 2018, 7, 43.	3.3	1
21	Velocity Selective Recording: A Demonstration of Effectiveness on the Vagus Nerve in Pig. , 2018, 2018, 1-4.		8
22	A New Method for Neural Spike Alignment: The Centroid Filter. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1988-1997.	4.9	1
23	A reconfigurable architecture for real-time digital simulation of neurons. , 2017, , .		2
24	Modelling dynamic photovoltaic arrays for marine applications. , 2016, , .		4
25	A Summary of Current and New Methods in Velocity Selective Recording (VSR) of Electroneurogram (ENG). , 2015, , .		4
26	A new method for spike extraction using velocity selective recording demonstrated with physiological ENG in Rat. Journal of Neuroscience Methods, 2015, 251, 47-55.	2.5	31
27	Fibre-selective discrimination of physiological ENG using velocity selective recording: Report on pilot rat experiments. , 2014, 2014, 2645-8.		8
28	An enhancement to velocity selective discrimination of neural recordings: Extraction of neuronal firing rates. , 2014, 2014, 4111-4.		5