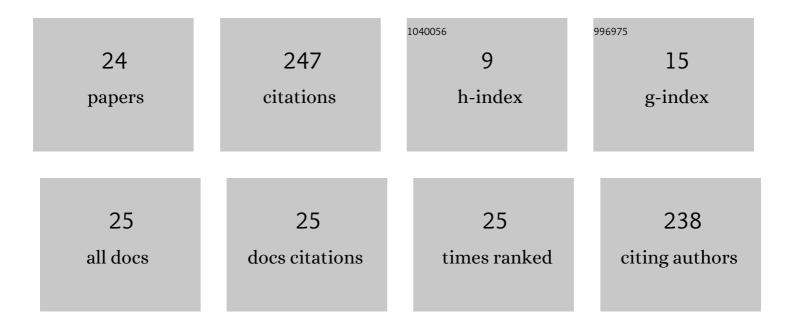
Charles P Unsworth

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Patterning and detailed study of human hNT astrocytes on parylene-C/silicon dioxide substrates to the single cell level. Biomaterials, 2011, 32, 6541-6550.	11.4	42
2	Robust Wavelet Stabilized †Footprints of Uncertainty' for Fuzzy System Classifiers to Automatically Detect Sharp Waves in the EEG after Hypoxia Ischemia. International Journal of Neural Systems, 2017, 27, 1650051.	5.2	30
3	EEG sharp waves are a biomarker of striatal neuronal survival after hypoxia-ischemia in preterm fetal sheep. Scientific Reports, 2018, 8, 16312.	3.3	26
4	lsolating single primary rat hippocampal neurons & astrocytes on ultra-thin patterned parylene-C/silicon dioxide substrates. Biomaterials, 2011, 32, 2566-2574.	11.4	25
5	Applications of advanced signal processing and machine learning in the neonatal hypoxic-ischemic electroencephalogram. Neural Regeneration Research, 2020, 15, 222.	3.0	18
6	Enrichment of differentiated hNT neurons and subsequent analysis using flow-cytometry and xCELLigence sensing. Journal of Neuroscience Methods, 2014, 227, 47-56.	2.5	15
7	Latent Phase Detection of Hypoxic-Ischemic Spike Transients in the EEG of Preterm Fetal Sheep Using Reverse Biorthogonal Wavelets & Fuzzy Classifier. International Journal of Neural Systems, 2019, 29, 1950013.	5.2	15
8	Route, speed and mode of oak postglacial colonisation across the British Isles: Integrating molecular ecology, palaeoecology and modelling approaches. Botanical Journal of Scotland, 2005, 57, 59-81.	0.3	12
9	Advanced Deep Learning Spectroscopy of Scalogram Infused CNN Classifiers for Robust Identification of Postâ€Hypoxic Epileptiform EEG Spikes. Advanced Intelligent Systems, 2021, 3, 2000198.	6.1	11
10	Electroencephalography studies of hypoxic ischemia in fetal and neonatal animal models. Neural Regeneration Research, 2020, 15, 828.	3.0	9
11	Latent Phase Identification of High-Frequency Micro-Scale Gamma Spike Transients in the Hypoxic Ischemic EEG of Preterm Fetal Sheep Using Spectral Analysis and Fuzzy Classifiers. Sensors, 2020, 20, 1424.	3.8	8
12	Comparison of Leading Biosensor Technologies to Detect Changes in Human Endothelial Barrier Properties in Response to Pro-Inflammatory TNFα and IL1β in Real-Time. Biosensors, 2021, 11, 159.	4.7	6
13	Redundancy of Independent Component Analysis in Four Common Types of Childhood Epileptic Seizure. Journal of Clinical Neurophysiology, 2006, 23, 245-253.	1.7	5
14	A Cell Derived Active Contour (CDAC) Method for Robust Tracking in Low Frame Rate, Low Contrast Phase Microscopy - an Example: The Human hNT Astrocyte. PLoS ONE, 2013, 8, e82883.	2.5	5
15	Contour interpolated radial basis functions with spline boundary correction for fast 3D reconstruction of the human articular cartilage from MR images. Medical Physics, 2016, 43, 1187-1199.	3.0	4
16	Evaluation of parylene derivatives for use as biomaterials for human astrocyte cell patterning. PLoS ONE, 2019, 14, e0218850.	2.5	4
17	Activating a $2 ilde{A}$ —2 Network of hNT Astrocytes with UV Laser Stimulation. , 2019, , .		3

18 Single Cell Grid Networks of Human Astrocytes On Chip. , 2019, , .

#	Article	IF	CITATIONS
19	Superior galvanostatic electrochemical deposition of platinum nanograss provides high performance planar microelectrodes for in vitro neural recording. Journal of Neural Engineering, 2021, 18, 0460d8.	3.5	3
20	First human hNT astrocytes patterned to single cell resolution on parylene-C/Silicon dioxide substrates. , 2011, 2011, 3605-8.		1
21	Improved cell tracking via automated removal of particulates. , 2014, , .		1
22	Geometric micro-shapes facilitate trackless connections between human astrocytes. Journal of Neural Engineering, 2021, 18, 036020.	3.5	1
23	Clustering and synchronous firing of coupled Rulkov maps with STDP for modeling epilepsy. , 2014, , .		0
24	Rotation-invariant cell shape representation and modeling with level sets and graphical models. , 2014, , .		0