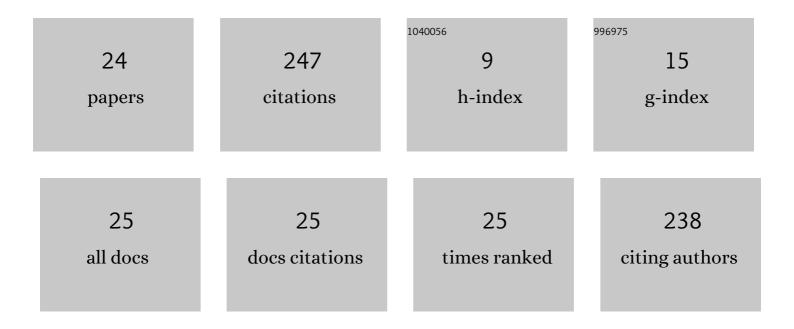
Charles P Unsworth

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 |