

Charlie Demene

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,246
citations

394421

19
h-index

580821

25
g-index

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all docs

29
docs citations

29
times ranked

1695
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal Clutter Filtering of Ultrafast Ultrasound Data Highly Increases Doppler and Ultrasound Sensitivity. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2271-2285.	8.9	661
2	Adaptive Spatiotemporal SVD Clutter Filtering for Ultrafast Doppler Imaging Using Similarity of Spatial Singular Vectors. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1574-1586.	8.9	203
3	Transcranial ultrafast ultrasound localization microscopy of brain vasculature in patients. <i>Nature Biomedical Engineering</i> , 2021, 5, 219-228.	22.5	157
4	Functional ultrasound imaging of brain activity in human newborns. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	154
5	Functional ultrasound neuroimaging: a review of the preclinical and clinical state of the art. <i>Current Opinion in Neurobiology</i> , 2018, 50, 128-135.	4.2	140
6	4D microvascular imaging based on ultrafast Doppler tomography. <i>NeuroImage</i> , 2016, 127, 472-483.	4.2	104
7	3-D ultrafast doppler imaging applied to the noninvasive mapping of blood vessels in Vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1467-1472.	3.0	95
8	Local hippocampal fast gamma rhythms precede brain-wide hyperemic patterns during spontaneous rodent REM sleep. <i>Nature Communications</i> , 2018, 9, 5364.	12.8	90
9	Ultrafast Doppler Reveals the Mapping of Cerebral Vascular Resistivity in Neonates. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1009-1017.	4.3	71
10	Multi-scale mapping along the auditory hierarchy using high-resolution functional UltraSound in the awake ferret. <i>ELife</i> , 2018, 7, .	6.0	67
11	Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. <i>Glia</i> , 2019, 67, 345-359.	4.9	65
12	Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. <i>Glia</i> , 2016, 64, 2306-2320.	4.9	61
13	Transfer functions linking neural calcium to single voxel functional ultrasound signal. <i>Nature Communications</i> , 2020, 11, 2954.	12.8	55
14	Functional Ultrasound Imaging: A New Imaging Modality for Neuroscience. <i>Neuroscience</i> , 2021, 474, 110-121.	2.3	55
15	Single-trial decoding of movement intentions using functional ultrasound neuroimaging. <i>Neuron</i> , 2021, 109, 1554-1566.e4.	8.1	51
16	Bedside functional monitoring of the dynamic brain connectivity in human neonates. <i>Nature Communications</i> , 2021, 12, 1080.	12.8	50
17	Ultrafast Doppler for neonatal brain imaging. <i>NeuroImage</i> , 2019, 185, 851-856.	4.2	44
18	Hypothermic Total Liquid Ventilation Is Highly Protective Through Cerebral Hemodynamic Preservation and Sepsis-Like Mitigation After Asphyxial Cardiac Arrest*. <i>Critical Care Medicine</i> , 2015, 43, e420-e430.	0.9	31

#	ARTICLE	IF	CITATIONS
19	Acoustic biomolecules enhance hemodynamic functional ultrasound imaging of neural activity. <i>NeuroImage</i> , 2020, 209, 116467.	4.2	29
20	3-D Longitudinal Imaging of Tumor Angiogenesis in Mice in Vivo Using Ultrafast Doppler Tomography. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1284-1296.	1.5	15
21	Quantitative Shear-Wave Elastography of the Liver in Preterm Neonates with Intra-Uterine Growth Restriction. <i>PLoS ONE</i> , 2015, 10, e0143220.	2.5	15
22	Multi-parametric functional ultrasound imaging of cerebral hemodynamics in a cardiopulmonary resuscitation model. <i>Scientific Reports</i> , 2018, 8, 16436.	3.3	12
23	Distinct higher-order representations of natural sounds in human and ferret auditory cortex. <i>ELife</i> , 2021, 10, .	6.0	9
24	Ret kinase-mediated mechanical induction of colon stem cells by tumor growth pressure stimulates cancer progression in vivo. <i>Communications Biology</i> , 2022, 5, 137.	4.4	4