

# Philippe Pouliot

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,107  
citations

393982

19  
h-index

414034

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1792  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic iron oxide nanoparticles-based detection of neuronal activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102478.	1.7	5
2	LIONirs: flexible Matlab toolbox for fNIRS data analysis. <i>Journal of Neuroscience Methods</i> , 2022, 370, 109487.	1.3	7
3	Laplacian Flow Dynamics on Geometric Graphs for Anatomical Modeling of Cerebrovascular Networks. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 381-394.	5.4	15
4	Feasibility of implantable iron oxide nanoparticles in detecting brain activity-proof of concept in a rat model. <i>Epilepsy Research</i> , 2021, 172, 106585.	0.8	1
5	A simulation study investigating potential diffusion-based MRI signatures of microstrokes. <i>Scientific Reports</i> , 2021, 11, 14229.	1.6	4
6	Intracranial EEG seizure onset and termination patterns and their association. <i>Epilepsy Research</i> , 2021, 176, 106739.	0.8	3
7	Prediction of epileptic seizures using fNIRS and machine learning. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 38, 2055-2068.	0.8	6
8	Large-Scale Desynchronization During Interictal Epileptic Discharges Recorded With Intracranial EEG. <i>Frontiers in Neurology</i> , 2020, 11, 529460.	1.1	7
9	Prediction of epileptic seizures with convolutional neural networks and functional near-infrared spectroscopy signals. <i>Computers in Biology and Medicine</i> , 2019, 111, 103355.	3.9	43
10	Assessing therapeutic response non-invasively in a neonatal rat model of acute inflammatory white matter injury using high-field MRI. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 348-360.	2.0	12
11	A Pilot Study Investigating Changes in Capillary Hemodynamics and Its Modulation by Exercise in the APP-PS1 Alzheimer Mouse Model. <i>Frontiers in Neuroscience</i> , 2019, 13, 1261.	1.4	11
12	Automatic Graph-Based Modeling of Brain Microvessels Captured With Two-Photon Microscopy. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2551-2562.	3.9	28
13	fNIRS improves seizure detection in multimodal EEG-fNIRS recordings. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	36
14	Multichannel wearable fNIRS-EEG system for long-term clinical monitoring. <i>Human Brain Mapping</i> , 2018, 39, 7-23.	1.9	56
15	Comparing three-dimensional serial optical coherence tomography histology to MRI imaging in the entire mouse brain. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	9
16	Whole brain vascular imaging in a mouse model of Alzheimer's disease with two-photon microscopy. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	14
17	Fully automated dual-resolution serial optical coherence tomography aimed at diffusion MRI validation in whole mouse brains. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	8
18	Magnetic resonance fingerprinting based on realistic vasculature in mice. <i>NeuroImage</i> , 2017, 149, 436-445.	2.1	17

#	ARTICLE	IF	CITATIONS
19	Detecting epileptic seizures in advance using optical and electrical recordings. , 2017, , .		0
20	User-independent diffusion tensor imaging analysis pipelines in a rat model presenting ventriculomegalia: A comparison study. NMR in Biomedicine, 2017, 30, e3793.	1.6	5
21	Whole mouse brain imaging using optical coherence tomography: reconstruction, normalization, segmentation, and comparison with diffusion MRI. Neurophotonics, 2017, 4, 041501.	1.7	30
22	Serial optical coherence scanning reveals an association between cardiac function and the heart architecture in the aging rodent heart. Biomedical Optics Express, 2017, 8, 5027.	1.5	7
23	Fabricating Water Dispersible Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications through Ligand Exchange and Direct Conjugation. Nanomaterials, 2016, 6, 100.	1.9	24
24	Surface engineering of SPIONs: role of phosphonate ligand multivalency in tailoring their efficacy. Nanotechnology, 2016, 27, 415602.	1.3	9
25	Recruitment of the left precentral gyrus in reading epilepsy: A multimodal neuroimaging study. Epilepsy & Behavior Case Reports, 2016, 5, 19-22.	1.5	5
26	Multichannel continuous electroencephalography-functional near-infrared spectroscopy recording of focal seizures and interictal epileptiform discharges in human epilepsy: a review. Neurophotonics, 2016, 3, 031402.	1.7	20
27	Using patient-specific hemodynamic response function in epileptic spike analysis of human epilepsy: a study based on EEG-fNIRS. NeuroImage, 2016, 126, 239-255.	2.1	18
28	Higher levels of cardiovascular fitness are associated with better executive function and prefrontal oxygenation in younger and older women. Frontiers in Human Neuroscience, 2015, 9, 66.	1.0	146
29	Measurement of Local Partial Pressure of Oxygen in the Brain Tissue under Normoxia and Epilepsy with Phosphorescence Lifetime Microscopy. PLoS ONE, 2015, 10, e0135536.	1.1	21
30	Hybrid FMT-MRI applied to in vivo atherosclerosis imaging. Biomedical Optics Express, 2014, 5, 1664.	1.5	22
31	An Exploration of the Effect of Hemodynamic Changes Due to Normal Aging on the fNIRS Response to Semantic Processing of Words. Frontiers in Neurology, 2014, 5, 249.	1.1	18
32	fNIRS-EEG study of focal interictal epileptiform discharges. Epilepsy Research, 2014, 108, 491-505.	0.8	34
33	Multimodal study of the hemodynamic response to hypercapnia in anesthetized aged rats. Neuroscience Letters, 2014, 563, 33-37.	1.0	10
34	Hemodynamic changes during posterior epilepsies: An EEG-fNIRS study. Epilepsy Research, 2014, 108, 883-890.	0.8	22
35	Superparamagnetic iron oxide based nanoprobes for imaging and theranostics. Advances in Colloid and Interface Science, 2013, 199-200, 95-113.	7.0	86
36	Optical imaging of acute epileptic networks in mice. Journal of Biomedical Optics, 2013, 18, 076021.	1.4	24

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37	Noninvasive continuous functional near-infrared spectroscopy combined with electroencephalography recording of frontal lobe seizures. <i>Epilepsia</i> , 2013, 54, 331-340.	2.6	39
38	Neurexins link neuronal activity to sleep-wake regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9974-9979.	3.3	76
39	An automated technique to determine the induced current in transcranial magnetic stimulation. , 2013, , .		0
40	Changes in diffusion path length with old age in diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 056002.	1.4	20
41	Principles and Applications of Diffuse Optical Imaging for the Brain. <i>Current Medical Imaging</i> , 2012, 8, 157-173.	0.4	2
42	Non-invasive continuous EEG-fNIRS recording of temporal lobe seizures. <i>Epilepsy Research</i> , 2012, 99, 112-126.	0.8	71
43	Nonlinear hemodynamic responses in human epilepsy: A multimodal analysis with fNIRS-EEG and fMRI-EEG. <i>Journal of Neuroscience Methods</i> , 2012, 204, 326-340.	1.3	58
44	Multichannel wearable system dedicated for simultaneous electroencephalography and near-infrared spectroscopy real-time data acquisitions. <i>Journal of Biomedical Optics</i> , 2011, 16, 096014.	1.4	58