

Pierre Levan

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

4,746
citations

136740

32
h-index

102304

66
g-index

70
all docs

70
docs citations

70
times ranked

3891
citing authors

#	ARTICLE	IF	CITATIONS
1	Interictal high-frequency oscillations (80–500 Hz) are an indicator of seizure onset areas independent of spikes in the human epileptic brain. <i>Epilepsia</i> , 2008, 49, 1893-1907.	2.6	542
2	High-frequency oscillations during human focal seizures. <i>Brain</i> , 2006, 129, 1593-1608.	3.7	486
3	High frequency oscillations in intracranial EEGs mark epileptogenicity rather than lesion type. <i>Brain</i> , 2009, 132, 1022-1037.	3.7	367
4	Ultra-fast magnetic resonance encephalography of physiological brain activity – Glymphatic pulsation mechanisms?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1033-1045.	2.4	283
5	Effect of sleep stage on interictal high-frequency oscillations recorded from depth macroelectrodes in patients with focal epilepsy. <i>Epilepsia</i> , 2009, 50, 617-628.	2.6	199
6	Different structures involved during ictal and interictal epileptic activity in malformations of cortical development: an EEG-fMRI study. <i>Brain</i> , 2008, 131, 2042-2060.	3.7	152
7	Tracking dynamic resting-state networks at higher frequencies using MR-encephalography. <i>NeuroImage</i> , 2013, 65, 216-222.	2.1	150
8	Absence seizures: Individual patterns revealed by EEG-fMRI. <i>Epilepsia</i> , 2010, 51, 2000-2010.	2.6	147
9	A system for automatic artifact removal in ictal scalp EEG based on independent component analysis and Bayesian classification. <i>Clinical Neurophysiology</i> , 2006, 117, 912-927.	0.7	144
10	High-Frequency Intracerebral EEG Activity (100–500 Hz) Following Interictal Spikes. <i>Epilepsia</i> , 2006, 47, 1465-1476.	2.6	135
11	Differentiation of specific ripple patterns helps to identify epileptogenic areas for surgical procedures. <i>Clinical Neurophysiology</i> , 2014, 125, 1339-1345.	0.7	124
12	Hemodynamic changes preceding the interictal EEG spike in patients with focal epilepsy investigated using simultaneous EEG-fMRI. <i>NeuroImage</i> , 2009, 45, 1220-1231.	2.1	114
13	EEG-fMRI. <i>Neurology</i> , 2009, 73, 2023-2030.	1.5	104
14	Prospective motion correction in functional MRI. <i>NeuroImage</i> , 2017, 154, 33-42.	2.1	104
15	Thalamic nuclei activity in idiopathic generalized epilepsy. <i>Neurology</i> , 2009, 73, 2018-2022.	1.5	103
16	Variability of the hemodynamic response as a function of age and frequency of epileptic discharge in children with epilepsy. <i>NeuroImage</i> , 2008, 40, 601-614.	2.1	93
17	Effects of fluctuating physiological rhythms during prolonged EEG-fMRI studies. <i>Clinical Neurophysiology</i> , 2008, 119, 2762-2774.	0.7	90
18	Single shot whole brain imaging using spherical stack of spirals trajectories. <i>NeuroImage</i> , 2013, 73, 59-70.	2.1	90

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19	Single shot concentric shells trajectories for ultra fast fMRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 484-494.	1.9	81
20	Evaluation of epileptogenic networks in children with tuberous sclerosis complex using EEG-fMRI. <i>Epilepsia</i> , 2008, 49, 816-825.	2.6	76
21	Noninvasive dynamic imaging of seizures in epileptic patients. <i>Human Brain Mapping</i> , 2009, 30, 3993-4011.	1.9	70
22	High frequency oscillations mirror disease activity in patients with focal cortical dysplasia. <i>Epilepsia</i> , 2013, 54, 1428-1436.	2.6	68
23	Independent component analysis reveals dynamic ictal BOLD responses in EEG-fMRI data from focal epilepsy patients. <i>NeuroImage</i> , 2010, 49, 366-378.	2.1	62
24	The identification of distinct high-frequency oscillations during spikes delineates the seizure onset zone better than high-frequency spectral power changes. <i>Clinical Neurophysiology</i> , 2016, 127, 129-142.	0.7	57
25	Ballistocardiographic artifact removal from simultaneous EEG-fMRI using an optical motion-tracking system. <i>NeuroImage</i> , 2013, 75, 1-11.	2.1	53
26	Synchronous Multiscale Neuroimaging Environment for Critically Sampled Physiological Analysis of Brain Function: Hepta-Scan Concept. <i>Brain Connectivity</i> , 2014, 4, 677-689.	0.8	53
27	BOLD signal changes preceding negative responses in EEG-fMRI in patients with focal epilepsy. <i>Epilepsia</i> , 2010, 51, 1837-1845.	2.6	52
28	Fast Undersampled Functional Magnetic Resonance Imaging Using Nonlinear Regularized Parallel Image Reconstruction. <i>PLoS ONE</i> , 2011, 6, e28822.	1.1	52
29	Independent component analysis (ICA) of generalized spike wave discharges in fMRI: Comparison with general linear model-based EEG-fMRI. <i>Human Brain Mapping</i> , 2011, 32, 209-217.	1.9	50
30	Fast fMRI provides high statistical power in the analysis of epileptic networks. <i>NeuroImage</i> , 2014, 88, 282-294.	2.1	48
31	Early tissue damage and microstructural reorganization predict disease severity in experimental epilepsy. <i>ELife</i> , 2017, 6, .	2.8	41
32	Quantification and correction of respiration induced dynamic field map changes in fMRI using 3D single shot techniques. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1093-1102.	1.9	38
33	Independent component analysis as a model-free approach for the detection of BOLD changes related to epileptic spikes: A simulation study. <i>Human Brain Mapping</i> , 2009, 30, 2021-2031.	1.9	34
34	Modulation by EEG features of BOLD responses to interictal epileptiform discharges. <i>NeuroImage</i> , 2010, 50, 15-26.	2.1	34
35	Content-Free Awareness: EEG-fcMRI Correlates of Consciousness as Such in an Expert Meditator. <i>Frontiers in Psychology</i> , 2019, 10, 3064.	1.1	34
36	Altered physiological brain variation in drug-resistant epilepsy. <i>Brain and Behavior</i> , 2018, 8, e01090.	1.0	32

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37	Changes preceding interictal epileptic EEG abnormalities: Comparison between EEG/fMRI and intracerebral EEG. <i>Epilepsia</i> , 2011, 52, 1120-1129.	2.6	29
38	Increased sensitivity of fast BOLD fMRI with a subject-specific hemodynamic response function and application to epilepsy. <i>NeuroImage</i> , 2014, 93, 59-73.	2.1	28
39	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. <i>Scientific Reports</i> , 2020, 10, 21559.	1.6	28
40	Cognitive and behavioral comorbidities in Rolandic epilepsy and their relation with default mode network's functional connectivity and organization. <i>Epilepsy and Behavior</i> , 2018, 78, 179-186.	0.9	27
41	Association between seizure freedom and default mode network reorganization in patients with unilateral temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2019, 90, 238-246.	0.9	24
42	Independent Component Analysis in the Study of Focal Seizures. <i>Journal of Clinical Neurophysiology</i> , 2006, 23, 551-558.	0.9	19
43	Enhanced subject-specific resting-state network detection and extraction with fast fMRI. <i>Human Brain Mapping</i> , 2017, 38, 817-830.	1.9	17
44	Fast imaging for mapping dynamic networks. <i>NeuroImage</i> , 2018, 180, 547-558.	2.1	17
45	Negative BOLD in default-mode structures measured with EEG-MREG is larger in temporal than extra-temporal epileptic spikes. <i>Frontiers in Neuroscience</i> , 2014, 8, 335.	1.4	16
46	From correlation to causation: Estimating effective connectivity from zero-lag covariances of brain signals. <i>PLoS Computational Biology</i> , 2018, 14, e1006056.	1.5	16
47	Respiratory-related brain pulsations are increased in epilepsy—a two-centre functional MRI study. <i>Brain Communications</i> , 2020, 2, fcaa076.	1.5	15
48	Concordance of Epileptic Networks Associated with Epileptic Spikes Measured by High-Density EEG and Fast fMRI. <i>PLoS ONE</i> , 2015, 10, e0140537.	1.1	15
49	EEG-fMRI Gradient Artifact Correction by Multiple Motion-Related Templates. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2647-2653.	2.5	14
50	15 Years MR-encephalography. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 85-108.	1.1	13
51	Independent component analysis identifies ictal bitemporal activity in intracranial recordings at the time of unilateral discharges. <i>Clinical Neurophysiology</i> , 2006, 117, 549-561.	0.7	12
52	Design of a shim coil array matched to the human brain anatomy. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1442-1457.	1.9	12
53	EEG spectral changes underlying BOLD responses contralateral to spikes in patients with focal epilepsy. <i>Epilepsia</i> , 2009, 50, 1804-1809.	2.6	11
54	Direct modelling of gradient artifacts for EEG-fMRI denoising and motion tracking. <i>Journal of Neural Engineering</i> , 2019, 16, 056010.	1.8	9

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55	The neuronal associations of respiratory-volume variability in the resting state. <i>NeuroImage</i> , 2021, 230, 117783.	2.1	9
56	Marker-based ballistocardiographic artifact correction improves spike identification in EEG-fMRI of focal epilepsy patients. <i>Clinical Neurophysiology</i> , 2016, 127, 2802-2811.	0.7	7
57	Histological Correlates of Diffusion-Weighted Magnetic Resonance Microscopy in a Mouse Model of Mesial Temporal Lobe Epilepsy. <i>Frontiers in Neuroscience</i> , 2020, 14, 543.	1.4	7
58	Analysis of accelerated 4D flow MRI in the murine aorta by radial acquisition and compressed sensing reconstruction. <i>NMR in Biomedicine</i> , 2020, 33, e4394.	1.6	6
59	Late-onset epilepsy in a surgically-treated Sturge-Weber patient. <i>Epileptic Disorders</i> , 2008, 10, 312-318.	0.7	6
60	Improved method for MR microscopy of brain tissue cultured with the interface method combined with Lenz lenses. <i>Magnetic Resonance Imaging</i> , 2018, 52, 24-32.	1.0	5
61	Sparse Estimation of Resting-State Effective Connectivity From fMRI Cross-Spectra. <i>Frontiers in Neuroscience</i> , 2018, 12, 287.	1.4	5
62	Increased interictal synchronicity of respiratory related brain pulsations in epilepsy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1840-1853.	2.4	5
63	Time-domain principal component reconstruction (tPCR): A more efficient and stable iterative reconstruction framework for non-Cartesian functional MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1321-1335.	1.9	3
64	Improving the sensitivity of spin-echo fMRI at 3T by highly accelerated acquisitions. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 245-257.	1.9	3
65	Targeted partial reconstruction for real-time fMRI with arbitrary trajectories. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1118-1129.	1.9	2
66	Topography-Related EEG-fMRI in Surgically Confirmed Epileptic Foci: A Comparison to Spike-Related EEG-fMRI in Clinical Practice. <i>Brain Topography</i> , 2021, 34, 373-383.	0.8	2
67	Holo-Hilbert spectral-based noise removal method for EEG high-frequency bands. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109470.	1.3	2
68	Trading off spatio-temporal properties in 3D high-speed fMRI using interleaved stack-of-spirals trajectories. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 777-790.	1.9	0