

Pierre Levan

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

4,746
citations

136950

32
h-index

98798

67
g-index

70
all docs

70
docs citations

70
times ranked

3891
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Holo-Hilbert spectral-based noise removal method for EEG high-frequency bands. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109470. | 2.5 | 2 |
| 2 | Increased interictal synchronicity of respiratory related brain pulsations in epilepsy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1840-1853. | 4.3 | 5 |
| 3 | 15 Years MR-encephalography. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 85-108. | 2.0 | 13 |
| 4 | Improving the sensitivity of spinâ€echo fMRI at 3T by highly accelerated acquisitions. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 245-257. | 3.0 | 3 |
| 5 | Trading off spatioâ€temporal properties in 3D highâ€speed fMRI using interleaved stackâ€ofâ€spirals trajectories. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 777-790. | 3.0 | 0 |
| 6 | 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. | 1.8 | 2 |
| 7 | The neuronal associations of respiratory-volume variability in the resting state. <i>NeuroImage</i> , 2021, 230, 117783. | 4.2 | 9 |
| 8 | Design of a shim coil array matched to the human brain anatomy. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1442-1457. | 3.0 | 12 |
| 9 | 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. | 2.8 | 6 |
| 10 | The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. <i>Scientific Reports</i> , 2020, 10, 21559. | 3.3 | 28 |
| 11 | 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. | 2.8 | 7 |
| 12 | Respiratory-related brain pulsations are increased in epilepsyâ€a two-centre functional MRI study. <i>Brain Communications</i> , 2020, 2, fcaa076. | 3.3 | 15 |
| 13 | Timeâ€domain principal component reconstruction (tPCR): A more efficient and stable iterative reconstruction framework for nonâ€Cartesian functional MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1321-1335. | 3.0 | 3 |
| 14 | Direct modelling of gradient artifacts for EEG-fMRI denoising and motion tracking. <i>Journal of Neural Engineering</i> , 2019, 16, 056010. | 3.5 | 9 |
| 15 | 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. | 1.7 | 24 |
| 16 | Targeted partial reconstruction for realâ€time fMRI with arbitrary trajectories. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1118-1129. | 3.0 | 2 |
| 17 | Content-Free Awareness: EEG-fcMRI Correlates of Consciousness as Such in an Expert Meditator. <i>Frontiers in Psychology</i> , 2019, 10, 3064. | 2.1 | 34 |
| 18 | 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. | 1.7 | 27 |

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|----|---|-----|-----------|
| 19 | Fast imaging for mapping dynamic networks. <i>NeuroImage</i> , 2018, 180, 547-558. | 4.2 | 17 |
| 20 | Altered physiological brain variation in drug-resistant epilepsy. <i>Brain and Behavior</i> , 2018, 8, e01090. | 2.2 | 32 |
| 21 | 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. | 1.8 | 5 |
| 22 | Sparse Estimation of Resting-State Effective Connectivity From fMRI Cross-Spectra. <i>Frontiers in Neuroscience</i> , 2018, 12, 287. | 2.8 | 5 |
| 23 | From correlation to causation: Estimating effective connectivity from zero-lag covariances of brain signals. <i>PLoS Computational Biology</i> , 2018, 14, e1006056. | 3.2 | 16 |
| 24 | Prospective motion correction in functional MRI. <i>NeuroImage</i> , 2017, 154, 33-42. | 4.2 | 104 |
| 25 | Enhanced subject-specific resting-state network detection and extraction with fast fMRI. <i>Human Brain Mapping</i> , 2017, 38, 817-830. | 3.6 | 17 |
| 26 | Early tissue damage and microstructural reorganization predict disease severity in experimental epilepsy. <i>ELife</i> , 2017, 6, . | 6.0 | 41 |
| 27 | Marker-based ballistocardiographic artifact correction improves spike identification in EEG-fMRI of focal epilepsy patients. <i>Clinical Neurophysiology</i> , 2016, 127, 2802-2811. | 1.5 | 7 |
| 28 | EEG-fMRI Gradient Artifact Correction by Multiple Motion-Related Templates. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2647-2653. | 4.2 | 14 |
| 29 | 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. | 4.3 | 283 |
| 30 | 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. | 1.5 | 57 |
| 31 | Concordance of Epileptic Networks Associated with Epileptic Spikes Measured by High-Density EEG and Fast fMRI. <i>PLoS ONE</i> , 2015, 10, e0140537. | 2.5 | 15 |
| 32 | 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. | 2.8 | 16 |
| 33 | 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. | 3.0 | 38 |
| 34 | Differentiation of specific ripple patterns helps to identify epileptogenic areas for surgical procedures. <i>Clinical Neurophysiology</i> , 2014, 125, 1339-1345. | 1.5 | 124 |
| 35 | Synchronous Multiscale Neuroimaging Environment for Critically Sampled Physiological Analysis of Brain Function: Hepta-Scan Concept. <i>Brain Connectivity</i> , 2014, 4, 677-689. | 1.7 | 53 |
| 36 | Increased sensitivity of fast BOLD fMRI with a subject-specific hemodynamic response function and application to epilepsy. <i>NeuroImage</i> , 2014, 93, 59-73. | 4.2 | 28 |

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|----|--|-----|-----------|
| 37 | Fast fMRI provides high statistical power in the analysis of epileptic networks. <i>NeuroImage</i> , 2014, 88, 282-294. | 4.2 | 48 |
| 38 | Single shot whole brain imaging using spherical stack of spirals trajectories. <i>NeuroImage</i> , 2013, 73, 59-70. | 4.2 | 90 |
| 39 | Ballistocardiographic artifact removal from simultaneous EEG-fMRI using an optical motion-tracking system. <i>NeuroImage</i> , 2013, 75, 1-11. | 4.2 | 53 |
| 40 | Tracking dynamic resting-state networks at higher frequencies using MR-encephalography. <i>NeuroImage</i> , 2013, 65, 216-222. | 4.2 | 150 |
| 41 | High frequency oscillations mirror disease activity in patients with focal cortical dysplasia. <i>Epilepsia</i> , 2013, 54, 1428-1436. | 5.1 | 68 |
| 42 | Single shot concentric shells trajectories for ultra fast fMRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 484-494. | 3.0 | 81 |
| 43 | Fast Undersampled Functional Magnetic Resonance Imaging Using Nonlinear Regularized Parallel Image Reconstruction. <i>PLoS ONE</i> , 2011, 6, e28822. | 2.5 | 52 |
| 44 | Changes preceding interictal epileptic EEG abnormalities: Comparison between EEG/fMRI and intracerebral EEG. <i>Epilepsia</i> , 2011, 52, 1120-1129. | 5.1 | 29 |
| 45 | 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. | 3.6 | 50 |
| 46 | BOLD signal changes preceding negative responses in EEG-fMRI in patients with focal epilepsy. <i>Epilepsia</i> , 2010, 51, 1837-1845. | 5.1 | 52 |
| 47 | Absence seizures: Individual patterns revealed by EEG-fMRI. <i>Epilepsia</i> , 2010, 51, 2000-2010. | 5.1 | 147 |
| 48 | Independent component analysis reveals dynamic ictal BOLD responses in EEG-fMRI data from focal epilepsy patients. <i>NeuroImage</i> , 2010, 49, 366-378. | 4.2 | 62 |
| 49 | Modulation by EEG features of BOLD responses to interictal epileptiform discharges. <i>NeuroImage</i> , 2010, 50, 15-26. | 4.2 | 34 |
| 50 | High frequency oscillations in intracranial EEGs mark epileptogenicity rather than lesion type. <i>Brain</i> , 2009, 132, 1022-1037. | 7.6 | 367 |
| 51 | Thalamic nuclei activity in idiopathic generalized epilepsy. <i>Neurology</i> , 2009, 73, 2018-2022. | 1.1 | 103 |
| 52 | EEG-fMRI. <i>Neurology</i> , 2009, 73, 2023-2030. | 1.1 | 104 |
| 53 | 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. | 3.6 | 34 |
| 54 | Noninvasive dynamic imaging of seizures in epileptic patients. <i>Human Brain Mapping</i> , 2009, 30, 3993-4011. | 3.6 | 70 |

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|----|--|-----|-----------|
| 55 | 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. | 5.1 | 199 |
| 56 | EEG spectral changes underlying BOLD responses contralateral to spikes in patients with focal epilepsy. <i>Epilepsia</i> , 2009, 50, 1804-1809. | 5.1 | 11 |
| 57 | Hemodynamic changes preceding the interictal EEG spike in patients with focal epilepsy investigated using simultaneous EEG-fMRI. <i>NeuroImage</i> , 2009, 45, 1220-1231. | 4.2 | 114 |
| 58 | Evaluation of epileptogenic networks in children with tuberous sclerosis complex using EEG-fMRI. <i>Epilepsia</i> , 2008, 49, 816-825. | 5.1 | 76 |
| 59 | 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. | 5.1 | 542 |
| 60 | Effects of fluctuating physiological rhythms during prolonged EEG-fMRI studies. <i>Clinical Neurophysiology</i> , 2008, 119, 2762-2774. | 1.5 | 90 |
| 61 | 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. | 4.2 | 93 |
| 62 | 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. | 7.6 | 152 |
| 63 | Late-onset epilepsy in a surgically-treated Sturge-Weber patient. <i>Epileptic Disorders</i> , 2008, 10, 312-318. | 1.3 | 6 |
| 64 | Independent component analysis identifies ictal bitemporal activity in intracranial recordings at the time of unilateral discharges. <i>Clinical Neurophysiology</i> , 2006, 117, 549-561. | 1.5 | 12 |
| 65 | 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. | 1.5 | 144 |
| 66 | Independent Component Analysis in the Study of Focal Seizures. <i>Journal of Clinical Neurophysiology</i> , 2006, 23, 551-558. | 1.7 | 19 |
| 67 | High-Frequency Intracerebral EEG Activity (100-500 Hz) Following Interictal Spikes. <i>Epilepsia</i> , 2006, 47, 1465-1476. | 5.1 | 135 |
| 68 | High-frequency oscillations during human focal seizures. <i>Brain</i> , 2006, 129, 1593-1608. | 7.6 | 486 |