

Vladimir Litvak

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

5,344
citations

38
h-index

72
g-index

112
ext. papers

6,902
ext. citations

6.7
avg, IF

5.62
L-index

#	Paper	IF	Citations
98	Good practice for conducting and reporting MEG research. <i>NeuroImage</i> , 2013 , 65, 349-63	7.9	412
97	EEG and MEG data analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011 , 2011, 852961	3	398
96	Preserved feedforward but impaired top-down processes in the vegetative state. <i>Science</i> , 2011 , 332, 858-62	33.3	370
95	Resting oscillatory cortico-subthalamic connectivity in patients with Parkinson's disease. <i>Brain</i> , 2011 , 134, 359-74	11.2	304
94	Bayesian model reduction and empirical Bayes for group (DCM) studies. <i>NeuroImage</i> , 2016 , 128, 413-431	7.9	253
93	Excessive synchronization of basal ganglia neurons at 20 Hz slows movement in Parkinson's disease. <i>Experimental Neurology</i> , 2007 , 205, 214-21	5.7	164
92	Synchronized neural oscillations and the pathophysiology of Parkinson's disease. <i>Current Opinion in Neurology</i> , 2013 , 26, 662-70	7.1	154
91	Movement-related changes in local and long-range synchronization in Parkinson's disease revealed by simultaneous magnetoencephalography and intracranial recordings. <i>Journal of Neuroscience</i> , 2012 , 32, 10541-53	6.6	142
90	Deep brain stimulation modulates synchrony within spatially and spectrally distinct resting state networks in Parkinson's disease. <i>Brain</i> , 2016 , 139, 1482-96	11.2	130
89	Alterations in brain connectivity underlying beta oscillations in Parkinsonism. <i>PLoS Computational Biology</i> , 2011 , 7, e1002124	5	126
88	Electromagnetic source reconstruction for group studies. <i>NeuroImage</i> , 2008 , 42, 1490-8	7.9	126
87	LFP and oscillations-what do they tell us?. <i>Current Opinion in Neurobiology</i> , 2015 , 31, 1-6	7.6	116
86	Subthalamic nucleus phase-amplitude coupling correlates with motor impairment in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2016 , 127, 2010-9	4.3	109
85	Cortico-pallidal oscillatory connectivity in patients with dystonia. <i>Brain</i> , 2015 , 138, 1894-906	11.2	100
84	Movement-related theta rhythm in humans: coordinating self-directed hippocampal learning. <i>PLoS Biology</i> , 2012 , 10, e1001267	9.7	94
83	Optimized beamforming for simultaneous MEG and intracranial local field potential recordings in deep brain stimulation patients. <i>NeuroImage</i> , 2010 , 50, 1578-88	7.9	94
82	Algorithmic procedures for Bayesian MEG/EEG source reconstruction in SPM. <i>NeuroImage</i> , 2014 , 84, 476-87	7.9	93

81	A DCM study of spectral asymmetries in feedforward and feedback connections between visual areas V1 and V4 in the monkey. <i>NeuroImage</i> , 2015 , 108, 460-75	7.9	92
80	Artifact correction and source analysis of early electroencephalographic responses evoked by transcranial magnetic stimulation over primary motor cortex. <i>NeuroImage</i> , 2007 , 37, 56-70	7.9	92
79	A guide to group effective connectivity analysis, part 2: Second level analysis with PEB. <i>NeuroImage</i> , 2019 , 200, 12-25	7.9	86
78	Oscillatory activity in the pedunculopontine area of patients with Parkinson's disease. <i>Experimental Neurology</i> , 2008 , 211, 59-66	5.7	84
77	DCM for complex-valued data: cross-spectra, coherence and phase-delays. <i>NeuroImage</i> , 2012 , 59, 439-557.9	7.9	81
76	Anticipatory changes in beta synchrony in the human corticospinal system and associated improvements in task performance. <i>European Journal of Neuroscience</i> , 2007 , 25, 3758-65	3.5	81
75	Granger causality revisited. <i>NeuroImage</i> , 2014 , 101, 796-808	7.9	78
74	A Parametric Empirical Bayesian Framework for the EEG/MEG Inverse Problem: Generative Models for Multi-Subject and Multi-Modal Integration. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 76	3.3	72
73	Sensory processing and the rubber hand illusion--an evoked potentials study. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 573-82	3.1	71
72	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , 2018 , 5, 180110	8.2	61
71	Dynamic Causal Models for phase coupling. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 19-30	3	61
70	The functional anatomy of schizophrenia: A dynamic causal modeling study of predictive coding. <i>Schizophrenia Research</i> , 2014 , 158, 204-12	3.6	57
69	Empirical Bayes for DCM: A Group Inversion Scheme. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 164	3.5	56
68	LTP-like changes induced by paired associative stimulation of the primary somatosensory cortex in humans: source analysis and associated changes in behaviour. <i>European Journal of Neuroscience</i> , 2007 , 25, 2862-74	3.5	54
67	Suppression of beta oscillations in the subthalamic nucleus following cortical stimulation in humans. <i>European Journal of Neuroscience</i> , 2008 , 28, 1686-95	3.5	53
66	Beta reactivity, prospective facilitation of executive processing, and its dependence on dopaminergic therapy in Parkinson's disease. <i>Journal of Neuroscience</i> , 2012 , 32, 9909-16	6.6	49
65	Contrast gain control and horizontal interactions in V1: a DCM study. <i>NeuroImage</i> , 2014 , 92, 143-55	7.9	48
64	Dynamic causal modelling of lateral interactions in the visual cortex. <i>NeuroImage</i> , 2013 , 66, 563-76	7.9	44

63	Response to Comment on "Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State". <i>Science</i> , 2011 , 334, 1203-1203	33.3	44
62	Changes in the location of cortico-muscular coherence following stroke. <i>NeuroImage: Clinical</i> , 2012 , 2, 50-5	5.3	42
61	Oscillatory Beta Power Correlates With Akinesia-Rigidity in the Parkinsonian Subthalamic Nucleus. <i>Movement Disorders</i> , 2017 , 32, 174-175	7	38
60	Analysis of simultaneous MEG and intracranial LFP recordings during Deep Brain Stimulation: a protocol and experimental validation. <i>Journal of Neuroscience Methods</i> , 2016 , 261, 29-46	3	36
59	Propagation of beta/gamma rhythms in the cortico-basal ganglia circuits of the parkinsonian rat. <i>Journal of Neurophysiology</i> , 2018 , 119, 1608-1628	3.2	36
58	The Frontal Control of Stopping. <i>Cerebral Cortex</i> , 2015 , 25, 4392-406	5.1	35
57	An MEG signature corresponding to an axiomatic model of reward prediction error. <i>NeuroImage</i> , 2012 , 59, 635-45	7.9	35
56	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018 , 181, 513-520	7.9	33
55	Movement related dynamics of subthalamo-cortical alpha connectivity in Parkinson's disease. <i>NeuroImage</i> , 2013 , 70, 132-42	7.9	33
54	Parametric estimation of cross-frequency coupling. <i>Journal of Neuroscience Methods</i> , 2015 , 243, 94-102	3	30
53	Differences in TMS-evoked responses between schizophrenia patients and healthy controls can be observed without a dedicated EEG system. <i>Clinical Neurophysiology</i> , 2010 , 121, 332-9	4.3	30
52	Cognitive factors modulate activity within the human subthalamic nucleus during voluntary movement in Parkinson's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 15815-26	6.6	27
51	Local field potential recordings from the pedunculopontine nucleus in a Parkinsonian patient. <i>NeuroReport</i> , 2008 , 19, 59-62	1.7	27
50	Empirical Bayes for Group (DCM) Studies: A Reproducibility Study. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 670	3.3	26
49	The problem of low variance voxels in statistical parametric mapping; a new hat avoids a 'haircut'. <i>NeuroImage</i> , 2012 , 59, 2131-41	7.9	25
48	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020 , 5, 89	4.8	23
47	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020 , 5, 89	4.8	22
46	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020 , 5, 103	4.8	21

45	Convolution models for induced electromagnetic responses. <i>NeuroImage</i> , 2013 , 64, 388-98	7.9	20
44	Generic dynamic causal modelling: An illustrative application to Parkinson's disease. <i>NeuroImage</i> , 2018 , 181, 818-830	7.9	19
43	Low-beta cortico-pallidal coherence decreases during movement and correlates with overall reaction time. <i>NeuroImage</i> , 2017 , 159, 1-8	7.9	19
42	Linking canonical microcircuits and neuronal activity: Dynamic causal modelling of laminar recordings. <i>NeuroImage</i> , 2017 , 146, 355-366	7.9	19
41	Functional Connectivity of the Pedunculopontine Nucleus and Surrounding Region in Parkinson's Disease. <i>Cerebral Cortex</i> , 2017 , 27, 54-67	5.1	18
40	Controlling false positive rates in mass-multivariate tests for electromagnetic responses. <i>NeuroImage</i> , 2011 , 56, 1072-81	7.9	18
39	The Parkinsonian Subthalamic Network: Measures of Power, Linear, and Non-linear Synchronization and their Relationship to L-DOPA Treatment and OFF State Motor Severity. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 517	3.3	18
38	Bayesian fusion and multimodal DCM for EEG and fMRI. <i>NeuroImage</i> , 2020 , 211, 116595	7.9	16
37	Nonlinear coupling between occipital and motor cortex during motor imagery: a dynamic causal modeling study. <i>NeuroImage</i> , 2013 , 71, 104-13	7.9	16
36	Modulation of effective connectivity during vocalization with perturbed auditory feedback. <i>Neuropsychologia</i> , 2013 , 51, 1471-80	3.2	16
35	The mirror illusion induces high gamma oscillations in the absence of movement. <i>NeuroImage</i> , 2014 , 103, 181-191	7.9	15
34	Comparison of beamformer implementations for MEG source localization. <i>NeuroImage</i> , 2020 , 216, 116797-9	7.9	14
33	Comparing dynamic causal models of neurovascular coupling with fMRI and EEG/MEG. <i>NeuroImage</i> , 2020 , 216, 116734	7.9	11
32	Intersubject variability and induced gamma in the visual cortex: DCM with empirical Bayes and neural fields. <i>Human Brain Mapping</i> , 2016 , 37, 4597-4614	5.9	10
31	Neural signatures of hyperdirect pathway activity in Parkinson's disease. <i>Nature Communications</i> , 2021 , 12, 5185	17.4	10
30	Multimodal Integration of M/EEG and f/MRI Data in SPM12. <i>Frontiers in Neuroscience</i> , 2019 , 13, 300	5.1	9
29	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , 2020 , 218, 116796	7.9	9
28	Resting state activity and connectivity of the nucleus basalis of Meynert and globus pallidus in Lewy body dementia and Parkinson's disease dementia. <i>NeuroImage</i> , 2020 , 221, 117184	7.9	8

27	EEG and MEG primers for tracking DBS network effects. <i>NeuroImage</i> , 2021 , 224, 117447	7.9	8
26	L-dopa treatment increases oscillatory power in the motor cortex of Parkinson's disease patients. <i>NeuroImage: Clinical</i> , 2020 , 26, 102255	5.3	7
25	The comparative performance of DBS artefact rejection methods for MEG recordings. <i>NeuroImage</i> , 2020 , 219, 117057	7.9	7
24	Cortical connectivity of the nucleus basalis of Meynert in Parkinson's disease and Lewy body dementias. <i>Brain</i> , 2021 , 144, 781-788	11.2	7
23	Separating Neural Oscillations from Aperiodic 1/f Activity: Challenges and Recommendations.. <i>Neuroinformatics</i> , 2022 , 1	3.2	7
22	Structure learning in coupled dynamical systems and dynamic causal modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20190048	3	6
21	Optimising beamformer regions of interest analysis. <i>NeuroImage</i> , 2014 , 102 Pt 2, 945-54	7.9	6
20	State Dependent Beta Oscillations in the Cortico-Basal Ganglia Circuit and their Neuromodulation under Phase-Locked Inputs		5
19	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020 , 5, 103	4.8	5
18	Dynamic analysis on simultaneous iEEG-MEG data via hidden Markov model. <i>NeuroImage</i> , 2021 , 233, 117923	7.9	5
17	Cortico-subthalamic Coherence in a Patient With Dystonia Induced by Chorea-Acanthocytosis: A Case Report. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 163	3.3	4
16	Cortical beta oscillations reflect the contextual gating of visual action feedback. <i>NeuroImage</i> , 2020 , 222, 117267	7.9	4
15	Neural signatures of pathological hyperdirect pathway activity in Parkinson's disease		4
14	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , 2021 , 246, 118789	7.9	3
13	MEG-BIDS: an extension to the Brain Imaging Data Structure for magnetoencephalography		3
12	Identification of nonlinear features in cortical and subcortical signals of Parkinson's Disease patients via a novel efficient measure. <i>NeuroImage</i> , 2020 , 223, 117356	7.9	3
11	Sedation Modulates Frontotemporal Predictive Coding Circuits and the Double Surprise Acceleration Effect. <i>Cerebral Cortex</i> , 2020 , 30, 5204-5217	5.1	2
10	Conflict detection in a sequential decision task is associated with increased cortico-subthalamic coherence and prolonged subthalamic oscillatory response in the beta band		2

9	Balance between competing spectral states in subthalamic nucleus is linked to motor impairment in Parkinson's disease. <i>Brain</i> , 2021 ,	11.2	2
8	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> ,5, 103	4.8	2
7	TMS-induzierte Plastizität: Ein Fenster zum Verständnis des motorischen Lernens?. <i>Klinische Neurophysiologie</i> , 2005 , 36, 178-185	0.2	1
6	Model Based Inference of Large Scale Brain Networks with Approximate Bayesian Computation		1
5	Propagation of Beta/Gamma Rhythms in the Cortico-Basal Ganglia Circuits of the Parkinsonian Rat		1
4	Inference of brain networks with approximate Bayesian computation - assessing face validity with an example application in Parkinsonism. <i>NeuroImage</i> , 2021 , 236, 118020	7.9	1
3	Stimulating at the right time to recover network states in a model of the cortico-basal ganglia-thalamic circuit.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009887	5	0
2	Functional connectivity maps of theta/alpha and beta coherence within the subthalamic nucleus region.. <i>NeuroImage</i> , 2022 , 119320	7.9	0
1	Spontaneous transient states of fronto-temporal and default-mode networks altered by suicide attempt in major depressive disorder.. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2022 , 1	5.1	