

Vladimir Litvak

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

7,942
citations

70961

41
h-index

60497

81
g-index

112
all docs

112
docs citations

112
times ranked

7353
citing authors

#	ARTICLE	IF	CITATIONS
1	Good practice for conducting and reporting MEG research. <i>NeuroImage</i> , 2013, 65, 349-363.	2.1	604
2	EEG and MEG Data Analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-32.	1.1	500
3	Bayesian model reduction and empirical Bayes for group (DCM) studies. <i>NeuroImage</i> , 2016, 128, 413-431.	2.1	475
4	Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State. <i>Science</i> , 2011, 332, 858-862.	6.0	444
5	Resting oscillatory cortico-subthalamic connectivity in patients with Parkinson's disease. <i>Brain</i> , 2011, 134, 359-374.	3.7	387
6	A guide to group effective connectivity analysis, part 2: Second level analysis with PEB. <i>NeuroImage</i> , 2019, 200, 12-25.	2.1	267
7	Synchronized neural oscillations and the pathophysiology of Parkinson's disease. <i>Current Opinion in Neurology</i> , 2013, 26, 662-670.	1.8	220
8	Deep brain stimulation modulates synchrony within spatially and spectrally distinct resting state networks in Parkinson's disease. <i>Brain</i> , 2016, 139, 1482-1496.	3.7	213
9	Excessive synchronization of basal ganglia neurons at 20 Hz slows movement in Parkinson's disease. <i>Experimental Neurology</i> , 2007, 205, 214-221.	2.0	199
10	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, 10541-10553.	1.7	176
11	Alterations in Brain Connectivity Underlying Beta Oscillations in Parkinsonism. <i>PLoS Computational Biology</i> , 2011, 7, e1002124.	1.5	160
12	Electromagnetic source reconstruction for group studies. <i>NeuroImage</i> , 2008, 42, 1490-1498.	2.1	159
13	LFP and oscillations—what do they tell us?. <i>Current Opinion in Neurobiology</i> , 2015, 31, 1-6.	2.0	159
14	Subthalamic nucleus phase-amplitude coupling correlates with motor impairment in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2016, 127, 2010-2019.	0.7	159
15	Cortico-pallidal oscillatory connectivity in patients with dystonia. <i>Brain</i> , 2015, 138, 1894-1906.	3.7	141
16	Granger causality revisited. <i>NeuroImage</i> , 2014, 101, 796-808.	2.1	136
17	Algorithmic procedures for Bayesian MEG/EEG source reconstruction in SPM. <i>NeuroImage</i> , 2014, 84, 476-487.	2.1	130
18	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, 460-475.	2.1	129

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19	Movement-Related Theta Rhythm in Humans: Coordinating Self-Directed Hippocampal Learning. <i>PLoS Biology</i> , 2012, 10, e1001267.	2.6	127
20	Optimized beamforming for simultaneous MEG and intracranial local field potential recordings in deep brain stimulation patients. <i>NeuroImage</i> , 2010, 50, 1578-1588.	2.1	123
21	DCM for complex-valued data: Cross-spectra, coherence and phase-delays. <i>NeuroImage</i> , 2012, 59, 439-455.	2.1	120
22	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.	2.1	112
23	Anticipatory changes in beta synchrony in the human corticospinal system and associated improvements in task performance. <i>European Journal of Neuroscience</i> , 2007, 25, 3758-3765.	1.2	103
24	Empirical Bayes for DCM: A Group Inversion Scheme. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 164.	1.2	103
25	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , 2018, 5, 180110.	2.4	101
26	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.	1.0	95
27	Oscillatory activity in the pedunclopontine area of patients with Parkinson's disease. <i>Experimental Neurology</i> , 2008, 211, 59-66.	2.0	93
28	Sensory Processing and the Rubber Hand Illusion – An Evoked Potentials Study. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 573-582.	1.1	93
29	Dynamic Causal Models for phase coupling. <i>Journal of Neuroscience Methods</i> , 2009, 183, 19-30.	1.3	71
30	The functional anatomy of schizophrenia: A dynamic causal modeling study of predictive coding. <i>Schizophrenia Research</i> , 2014, 158, 204-212.	1.1	67
31	Neural signatures of hyperdirect pathway activity in Parkinson's disease. <i>Nature Communications</i> , 2021, 12, 5185.	5.8	65
32	Suppression of beta oscillations in the subthalamic nucleus following cortical stimulation in humans. <i>European Journal of Neuroscience</i> , 2008, 28, 1686-1695.	1.2	64
33	Contrast gain control and horizontal interactions in V1: A DCM study. <i>NeuroImage</i> , 2014, 92, 143-155.	2.1	64
34	Changes in the location of cortico-muscular coherence following stroke. <i>NeuroImage: Clinical</i> , 2013, 2, 50-55.	1.4	62
35	Propagation of beta/gamma rhythms in the cortico-basal ganglia circuits of the parkinsonian rat. <i>Journal of Neurophysiology</i> , 2018, 119, 1608-1628.	0.9	62
36	Separating Neural Oscillations from Aperiodic 1/f Activity: Challenges and Recommendations. <i>Neuroinformatics</i> , 2022, 20, 991-1012.	1.5	61

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37	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, 2862-2874.	1.2	58
38	Dynamic causal modelling of lateral interactions in the visual cortex. <i>NeuroImage</i> , 2013, 66, 563-576.	2.1	58
39	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018, 181, 513-520.	2.1	56
40	Beta Reactivity, Prospective Facilitation of Executive Processing, and Its Dependence on Dopaminergic Therapy in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 9909-9916.	1.7	54
41	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.	1.3	52
42	Oscillatory Beta Power Correlates With Akinesia/Rigidity in the Parkinsonian Subthalamic Nucleus. <i>Movement Disorders</i> , 2017, 32, 174-175.	2.2	52
43	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , 2022, 246, 118789.	2.1	50
44	Comparison of beamformer implementations for MEG source localization. <i>NeuroImage</i> , 2020, 216, 116797.	2.1	48
45	Response to Comment on "Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State". <i>Science</i> , 2011, 334, 1203-1203.	6.0	45
46	The Frontal Control of Stopping. <i>Cerebral Cortex</i> , 2015, 25, 4392-4406.	1.6	44
47	Parametric estimation of cross-frequency coupling. <i>Journal of Neuroscience Methods</i> , 2015, 243, 94-102.	1.3	44
48	An MEG signature corresponding to an axiomatic model of reward prediction error. <i>NeuroImage</i> , 2012, 59, 635-645.	2.1	43
49	Empirical Bayes for Group (DCM) Studies: A Reproducibility Study. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 670.	1.0	41
50	Generic dynamic causal modelling: An illustrative application to Parkinson's disease. <i>NeuroImage</i> , 2018, 181, 818-830.	2.1	41
51	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020, 5, 89.	0.9	41
52	Movement related dynamics of subthalamo-cortical alpha connectivity in Parkinson's disease. <i>NeuroImage</i> , 2013, 70, 132-142.	2.1	40
53	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020, 5, 103.	0.9	40
54	The problem of low variance voxels in statistical parametric mapping; a new hat avoids a "haircut". <i>NeuroImage</i> , 2012, 59, 2131-2141.	2.1	38

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55	Linking canonical microcircuits and neuronal activity: Dynamic causal modelling of laminar recordings. <i>NeuroImage</i> , 2017, 146, 355-366.	2.1	38
56	Metastable oscillatory modes emerge from synchronization in the brain spacetime connectome. <i>Communications Physics</i> , 2022, 5, .	2.0	37
57	Convolution models for induced electromagnetic responses. <i>NeuroImage</i> , 2013, 64, 388-398.	2.1	35
58	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, 332-339.	0.7	33
59	Cognitive Factors Modulate Activity within the Human Subthalamic Nucleus during Voluntary Movement in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2013, 33, 15815-15826.	1.7	33
60	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020, 5, 89.	0.9	32
61	Low-beta cortico-pallidal coherence decreases during movement and correlates with overall reaction time. <i>NeuroImage</i> , 2017, 159, 1-8.	2.1	31
62	Comparing dynamic causal models of neurovascular coupling with fMRI and EEG/MEG. <i>NeuroImage</i> , 2020, 216, 116734.	2.1	31
63	Bayesian fusion and multimodal DCM for EEG and fMRI. <i>NeuroImage</i> , 2020, 211, 116595.	2.1	30
64	Local field potential recordings from the pedunculopontine nucleus in a Parkinsonian patient. <i>NeuroReport</i> , 2008, 19, 59-62.	0.6	28
65	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.	1.0	28
66	EEG and MEG primers for tracking DBS network effects. <i>NeuroImage</i> , 2021, 224, 117447.	2.1	26
67	Modulation of effective connectivity during vocalization with perturbed auditory feedback. <i>Neuropsychologia</i> , 2013, 51, 1471-1480.	0.7	25
68	The comparative performance of DBS artefact rejection methods for MEG recordings. <i>NeuroImage</i> , 2020, 219, 117057.	2.1	25
69	Balance between competing spectral states in subthalamic nucleus is linked to motor impairment in Parkinson's disease. <i>Brain</i> , 2022, 145, 237-250.	3.7	25
70	Cortical connectivity of the nucleus basalis of Meynert in Parkinson's disease and Lewy body dementias. <i>Brain</i> , 2021, 144, 781-788.	3.7	24
71	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.	1.9	22
72	Functional Connectivity of the Pedunculopontine Nucleus and Surrounding Region in Parkinson's Disease. <i>Cerebral Cortex</i> , 2017, 27, 54-67.	1.6	22

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73	Controlling false positive rates in mass-multivariate tests for electromagnetic responses. <i>NeuroImage</i> , 2011, 56, 1072-1081.	2.1	20
74	Cortical beta oscillations reflect the contextual gating of visual action feedback. <i>NeuroImage</i> , 2020, 222, 117267.	2.1	20
75	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> , 2020, 5, 103.	0.9	20
76	Nonlinear coupling between occipital and motor cortex during motor imagery: A dynamic causal modeling study. <i>NeuroImage</i> , 2013, 71, 104-113.	2.1	19
77	L-dopa treatment increases oscillatory power in the motor cortex of Parkinson's disease patients. <i>NeuroImage: Clinical</i> , 2020, 26, 102255.	1.4	19
78	Multimodal Integration of M/EEG and f/MRI Data in SPM12. <i>Frontiers in Neuroscience</i> , 2019, 13, 300.	1.4	18
79	Structure learning in coupled dynamical systems and dynamic causal modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190048.	1.6	17
80	The mirror illusion induces high gamma oscillations in the absence of movement. <i>NeuroImage</i> , 2014, 103, 181-191.	2.1	16
81	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.	2.1	15
82	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , 2020, 218, 116796.	2.1	15
83	Functional connectivity maps of theta/alpha and beta coherence within the subthalamic nucleus region. <i>NeuroImage</i> , 2022, 257, 119320.	2.1	15
84	Cortical drive of low-frequency oscillations in the human nucleus accumbens during action selection. <i>Journal of Neurophysiology</i> , 2015, 114, 29-39.	0.9	14
85	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.	1.5	12
86	Cortico-subthalamic Coherence in a Patient With Dystonia Induced by Chorea-Acanthocytosis: A Case Report. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 163.	1.0	9
87	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.	2.1	9
88	Optimising beamformer regions of interest analysis. <i>NeuroImage</i> , 2014, 102, 945-954.	2.1	8
89	There's no such thing as a "true" model: the challenge of assessing face validity*. , 2019, , .		8
90	Inference of brain networks with approximate Bayesian computation " assessing face validity with an example application in Parkinsonism. <i>NeuroImage</i> , 2021, 236, 118020.	2.1	8

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91	Dynamic analysis on simultaneous iEEG-MEG data via hidden Markov model. <i>NeuroImage</i> , 2021, 233, 117923.	2.1	7
92	Sedation Modulates Frontotemporal Predictive Coding Circuits and the Double Surprise Acceleration Effect. <i>Cerebral Cortex</i> , 2020, 30, 5204-5217.	1.6	5
93	Editorial: From Raw MEG/EEG to Publication: How to Perform MEG/EEG Group Analysis With Free Academic Software. <i>Frontiers in Neuroscience</i> , 2022, 16, 854471.	1.4	5
94	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> , 0, 5, 103.	0.9	2
95	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, 272, 1547-1557.	1.8	2
96	Conflict Detection in a Sequential Decision Task Is Associated with Increased Cortico-Subthalamic Coherence and Prolonged Subthalamic Oscillatory Response in the β^2 Band. <i>Journal of Neuroscience</i> , 2022, 42, 4681-4692.	1.7	2
97	Watching Movies Unfold, a Frame-by-Frame Analysis of the Associated Neural Dynamics. <i>ENeuro</i> , 2021, 8, ENEURO.0099-21.2021.	0.9	0