

# 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	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
2	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , 2022, 246, 118789.	2.1	50
3	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
4	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
5	Separating Neural Oscillations from Aperiodic 1/f Activity: Challenges and Recommendations. <i>Neuroinformatics</i> , 2022, 20, 991-1012.	1.5	61
6	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
7	Conflict Detection in a Sequential Decision Task Is Associated with Increased Cortico-Subthalamic Coherence and Prolonged Subthalamic Oscillatory Response in the $\beta^2$ Band. <i>Journal of Neuroscience</i> , 2022, 42, 4681-4692.	1.7	2
8	Functional connectivity maps of theta/alpha and beta coherence within the subthalamic nucleus region. <i>NeuroImage</i> , 2022, 257, 119320.	2.1	15
9	Metastable oscillatory modes emerge from synchronization in the brain spacetime connectome. <i>Communications Physics</i> , 2022, 5, .	2.0	37
10	EEG and MEG primers for tracking DBS network effects. <i>NeuroImage</i> , 2021, 224, 117447.	2.1	26
11	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
12	Dynamic analysis on simultaneous iEEG-MEG data via hidden Markov model. <i>NeuroImage</i> , 2021, 233, 117923.	2.1	7
13	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
14	Neural signatures of hyperdirect pathway activity in Parkinson's disease. <i>Nature Communications</i> , 2021, 12, 5185.	5.8	65
15	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
16	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
17	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
18	Cortical beta oscillations reflect the contextual gating of visual action feedback. <i>NeuroImage</i> , 2020, 222, 117267.	2.1	20

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19	Comparison of beamformer implementations for MEG source localization. NeuroImage, 2020, 216, 116797.	2.1	48
20	L-dopa treatment increases oscillatory power in the motor cortex of Parkinson's disease patients. NeuroImage: Clinical, 2020, 26, 102255.	1.4	19
21	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. NeuroImage, 2020, 218, 116796.	2.1	15
22	Sedation Modulates Frontotemporal Predictive Coding Circuits and the Double Surprise Acceleration Effect. Cerebral Cortex, 2020, 30, 5204-5217.	1.6	5
23	Comparing dynamic causal models of neurovascular coupling with fMRI and EEG/MEG. NeuroImage, 2020, 216, 116734.	2.1	31
24	The comparative performance of DBS artefact rejection methods for MEG recordings. NeuroImage, 2020, 219, 117057.	2.1	25
25	Bayesian fusion and multimodal DCM for EEG and fMRI. NeuroImage, 2020, 211, 116595.	2.1	30
26	Second waves, social distancing, and the spread of COVID-19 across the USA. Wellcome Open Research, 2020, 5, 103.	0.9	20
27	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	0.9	32
28	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	0.9	41
29	Second waves, social distancing, and the spread of COVID-19 across America. Wellcome Open Research, 2020, 5, 103.	0.9	40
30	Structure learning in coupled dynamical systems and dynamic causal modelling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190048.	1.6	17
31	A guide to group effective connectivity analysis, part 2: Second level analysis with PEB. NeuroImage, 2019, 200, 12-25.	2.1	267
32	Cortico-subthalamic Coherence in a Patient With Dystonia Induced by Chorea-Acanthocytosis: A Case Report. Frontiers in Human Neuroscience, 2019, 13, 163.	1.0	9
33	Multimodal Integration of M/EEG and fMRI Data in SPM12. Frontiers in Neuroscience, 2019, 13, 300.	1.4	18
34	Thereâ€™s no such thing as a â€˜trueâ€™ model: the challenge of assessing face validity*. , 2019, , .		8
35	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. NeuroImage, 2018, 181, 513-520.	2.1	56
36	Generic dynamic causal modelling: An illustrative application to Parkinson's disease. NeuroImage, 2018, 181, 818-830.	2.1	41

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37	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
38	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , 2018, 5, 180110.	2.4	101
39	Low-beta cortico-pallidal coherence decreases during movement and correlates with overall reaction time. <i>NeuroImage</i> , 2017, 159, 1-8.	2.1	31
40	Oscillatory Beta Power Correlates With Akinesiaâ€Rigidity in the Parkinsonian Subthalamic Nucleus. <i>Movement Disorders</i> , 2017, 32, 174-175.	2.2	52
41	Linking canonical microcircuits and neuronal activity: Dynamic causal modelling of laminar recordings. <i>NeuroImage</i> , 2017, 146, 355-366.	2.1	38
42	Functional Connectivity of the Pedunclopontine Nucleus and Surrounding Region in Parkinson's Disease. <i>Cerebral Cortex</i> , 2017, 27, 54-67.	1.6	22
43	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
44	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
45	Bayesian model reduction and empirical Bayes for group (DCM) studies. <i>NeuroImage</i> , 2016, 128, 413-431.	2.1	475
46	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
47	Subthalamic nucleus phaseâ€amplitude coupling correlates with motor impairment in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2016, 127, 2010-2019.	0.7	159
48	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
49	Empirical Bayes for Group (DCM) Studies: A Reproducibility Study. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 670.	1.0	41
50	Empirical Bayes for DCM: A Group Inversion Scheme. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 164.	1.2	103
51	The Frontal Control of Stopping. <i>Cerebral Cortex</i> , 2015, 25, 4392-4406.	1.6	44
52	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
53	Cortico-pallidal oscillatory connectivity in patients with dystonia. <i>Brain</i> , 2015, 138, 1894-1906.	3.7	141
54	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

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55	Parametric estimation of cross-frequency coupling. <i>Journal of Neuroscience Methods</i> , 2015, 243, 94-102.	1.3	44
56	Sensory Processing and the Rubber Hand Illusion—An Evoked Potentials Study. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 573-582.	1.1	93
57	LFP and oscillations—what do they tell us?. <i>Current Opinion in Neurobiology</i> , 2015, 31, 1-6.	2.0	159
58	Optimising beamformer regions of interest analysis. <i>NeuroImage</i> , 2014, 102, 945-954.	2.1	8
59	The mirror illusion induces high gamma oscillations in the absence of movement. <i>NeuroImage</i> , 2014, 103, 181-191.	2.1	16
60	Granger causality revisited. <i>NeuroImage</i> , 2014, 101, 796-808.	2.1	136
61	Algorithmic procedures for Bayesian MEG/EEG source reconstruction in SPM. <i>NeuroImage</i> , 2014, 84, 476-487.	2.1	130
62	The functional anatomy of schizophrenia: A dynamic causal modeling study of predictive coding. <i>Schizophrenia Research</i> , 2014, 158, 204-212.	1.1	67
63	Contrast gain control and horizontal interactions in V1: A DCM study. <i>NeuroImage</i> , 2014, 92, 143-155.	2.1	64
64	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
65	Changes in the location of cortico-muscular coherence following stroke. <i>NeuroImage: Clinical</i> , 2013, 2, 50-55.	1.4	62
66	Modulation of effective connectivity during vocalization with perturbed auditory feedback. <i>Neuropsychologia</i> , 2013, 51, 1471-1480.	0.7	25
67	Movement related dynamics of subthalamo-cortical alpha connectivity in Parkinson's disease. <i>NeuroImage</i> , 2013, 70, 132-142.	2.1	40
68	Convolution models for induced electromagnetic responses. <i>NeuroImage</i> , 2013, 64, 388-398.	2.1	35
69	Good practice for conducting and reporting MEG research. <i>NeuroImage</i> , 2013, 65, 349-363.	2.1	604
70	Dynamic causal modelling of lateral interactions in the visual cortex. <i>NeuroImage</i> , 2013, 66, 563-576.	2.1	58
71	Synchronized neural oscillations and the pathophysiology of Parkinson's disease. <i>Current Opinion in Neurology</i> , 2013, 26, 662-670.	1.8	220
72	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

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73	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
74	An MEG signature corresponding to an axiomatic model of reward prediction error. <i>NeuroImage</i> , 2012, 59, 635-645.	2.1	43
75	DCM for complex-valued data: Cross-spectra, coherence and phase-delays. <i>NeuroImage</i> , 2012, 59, 439-455.	2.1	120
76	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
77	Movement-Related Theta Rhythm in Humans: Coordinating Self-Directed Hippocampal Learning. <i>PLoS Biology</i> , 2012, 10, e1001267.	2.6	127
78	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
79	Resting oscillatory cortico-subthalamic connectivity in patients with Parkinson's disease. <i>Brain</i> , 2011, 134, 359-374.	3.7	387
80	Controlling false positive rates in mass-multivariate tests for electromagnetic responses. <i>NeuroImage</i> , 2011, 56, 1072-1081.	2.1	20
81	Preserved Feedforward But Impaired Top-Down Processes in the Vegetative State. <i>Science</i> , 2011, 332, 858-862.	6.0	444
82	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
83	EEG and MEG Data Analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-32.	1.1	500
84	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
85	Alterations in Brain Connectivity Underlying Beta Oscillations in Parkinsonism. <i>PLoS Computational Biology</i> , 2011, 7, e1002124.	1.5	160
86	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
87	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
88	Dynamic Causal Models for phase coupling. <i>Journal of Neuroscience Methods</i> , 2009, 183, 19-30.	1.3	71
89	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
90	Oscillatory activity in the pedunculopontine area of patients with Parkinson's disease. <i>Experimental Neurology</i> , 2008, 211, 59-66.	2.0	93

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91	Electromagnetic source reconstruction for group studies. <i>NeuroImage</i> , 2008, 42, 1490-1498.	2.1	159
92	Local field potential recordings from the pedunculo-pontine nucleus in a Parkinsonian patient. <i>NeuroReport</i> , 2008, 19, 59-62.	0.6	28
93	Excessive synchronization of basal ganglia neurons at 20ÂHz slows movement in Parkinson's disease. <i>Experimental Neurology</i> , 2007, 205, 214-221.	2.0	199
94	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
95	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
96	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
97	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> , 0, 5, 103.	0.9	2