

Lars Michels

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,355
citations

126907

33
h-index

175258

52
g-index

102
all docs

102
docs citations

102
times ranked

5852
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo detection of GABA and glutamate with MEGA-PRESS: Reproducibility and gender effects. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1262-1267.	3.4	191
2	Simultaneous EEG-fMRI during a Working Memory Task: Modulations in Low and High Frequency Bands. <i>PLoS ONE</i> , 2010, 5, e10298.	2.5	175
3	Aberrant Coupling Within and Across the Default Mode, Task-Positive, and Salience Network in Subjects at Risk for Psychosis. <i>Schizophrenia Bulletin</i> , 2014, 40, 1095-1104.	4.3	149
4	Frontal GABA Levels Change during Working Memory. <i>PLoS ONE</i> , 2012, 7, e31933.	2.5	108
5	EEG alpha distinguishes between cuneal and precuneal activation in working memory. <i>NeuroImage</i> , 2008, 40, 1296-1310.	4.2	107
6	Frontal Midline Theta Reflects Individual Task Performance in a Working Memory Task. <i>Brain Topography</i> , 2015, 28, 127-134.	1.8	107
7	Enhanced frontal low and high frequency power and synchronization in the resting EEG of parkinsonian patients. <i>NeuroImage</i> , 2008, 41, 985-997.	4.2	101
8	Visual areas involved in the perception of human movement from dynamic form analysis. <i>NeuroReport</i> , 2005, 16, 1037-1041.	1.2	92
9	Brain activation in response to bladder filling and simultaneous stimulation of the dorsal clitoral nerve—An fMRI study in healthy women. <i>NeuroImage</i> , 2008, 41, 682-689.	4.2	90
10	Age dependent electroencephalographic changes in attention-deficit/hyperactivity disorder (ADHD). <i>Clinical Neurophysiology</i> , 2014, 125, 1626-1638.	1.5	86
11	Prefrontal GABA and glutathione imbalance in posttraumatic stress disorder: Preliminary findings. <i>Psychiatry Research - Neuroimaging</i> , 2014, 224, 288-295.	1.8	71
12	Developmental changes in gamma-aminobutyric acid levels in attention-deficit/hyperactivity disorder. <i>Translational Psychiatry</i> , 2015, 5, e589-e589.	4.8	66
13	Posterior cingulate $\hat{3}$ -aminobutyric acid and glutamate/glutamine are reduced in amnesic mild cognitive impairment and are unrelated to amyloid deposition and apolipoprotein E genotype. <i>Neurobiology of Aging</i> , 2015, 36, 53-59.	3.1	61
14	Two dose investigation of the 5-HT-agonist psilocybin on relative and global cerebral blood flow. <i>NeuroImage</i> , 2017, 159, 70-78.	4.2	61
15	Role of the anterior insular cortex in integrative causal signaling during multisensory auditory—visual attention. <i>European Journal of Neuroscience</i> , 2015, 41, 264-274.	2.6	59
16	Symptom dimensions are associated with reward processing in unmedicated persons at risk for psychosis. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 382.	2.0	56
17	Brain activation associated with active and passive lower limb stepping. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 828.	2.0	56
18	Differential functional brain network connectivity during visceral interoception as revealed by independent component analysis of fMRI time-series. <i>Human Brain Mapping</i> , 2015, 36, 4438-4468.	3.6	55

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19	Arterial spin labeling imaging reveals widespread and $\text{A}\beta$ -independent reductions in cerebral blood flow in elderly apolipoprotein epsilon-4 carriers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 581-595.	4.3	53
20	Coupling Between Resting Cerebral Perfusion and EEG. <i>Brain Topography</i> , 2013, 26, 442-457.	1.8	52
21	Supraspinal Control of Urine Storage and Micturition in Men—An fMRI Study. <i>Cerebral Cortex</i> , 2015, 25, 3369-3380.	2.9	52
22	Effect of Error Augmentation on Brain Activation and Motor Learning of a Complex Locomotor Task. <i>Frontiers in Neuroscience</i> , 2017, 11, 526.	2.8	50
23	Atypical visual processing in posttraumatic stress disorder. <i>NeuroImage: Clinical</i> , 2013, 3, 531-538.	2.7	49
24	Triple Network Model Dynamically Revisited: Lower Salience Network State Switching in Pre-psychosis. <i>Frontiers in Physiology</i> , 2020, 11, 66.	2.8	49
25	Contrast dependency of saccadic compression and suppression. <i>Vision Research</i> , 2004, 44, 2327-2336.	1.4	48
26	Neural Coupling of Cooperative Hand Movements: A Reflex and fMRI Study. <i>Cerebral Cortex</i> , 2015, 25, 948-958.	2.9	48
27	Interaction of visual hemifield and body view in biological motion perception. <i>European Journal of Neuroscience</i> , 2008, 27, 514-522.	2.6	47
28	Brain activity for peripheral biological motion in the posterior superior temporal gyrus and the fusiform gyrus: Dependence on visual hemifield and view orientation. <i>NeuroImage</i> , 2009, 45, 151-159.	4.2	47
29	The somatosensory representation of the human clitoris: An fMRI study. <i>NeuroImage</i> , 2010, 49, 177-184.	4.2	46
30	Subcortical Shape Changes, Hippocampal Atrophy and Cortical Thinning in Future Alzheimer's Disease Patients. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 38.	3.4	43
31	Developmental changes of functional and directed resting-state connectivities associated with neuronal oscillations in EEG. <i>NeuroImage</i> , 2013, 81, 231-242.	4.2	41
32	Subcortical Glutamate Mediates the Reduction of Short-Range Functional Connectivity with Age in a Developmental Cohort. <i>Journal of Neuroscience</i> , 2015, 35, 8433-8441.	3.6	41
33	Brain state regulation during normal development: Intrinsic activity fluctuations in simultaneous EEG-fMRI. <i>NeuroImage</i> , 2012, 60, 1426-1439.	4.2	39
34	Functional hyperconnectivity vanishes in children with developmental dyscalculia after numerical intervention. <i>Developmental Cognitive Neuroscience</i> , 2018, 30, 291-303.	4.0	39
35	Test-Retest Reliability of the Brain Metabolites GABA and Glx With JPRESS, PRESS, and MEGA-PRESS MRS Sequences in vivo at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1181-1191.	3.4	38
36	Altered resting-state functional connectivity in children and adolescents born very preterm short title. <i>NeuroImage: Clinical</i> , 2018, 20, 1148-1156.	2.7	37

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37	Network-based fMRI-neurofeedback training of sustained attention. <i>NeuroImage</i> , 2020, 221, 117194.	4.2	36
38	EEGâ€“BOLD correlations during (post-)adolescent brain maturation. <i>NeuroImage</i> , 2011, 56, 1493-1505.	4.2	35
39	Abnormal Connectivity and Brain Structure in Patients With Visual Snow. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 582031.	2.0	33
40	Changes of Functional and Directed Resting-State Connectivity Are Associated with Neuronal Oscillations, ApoE Genotype and Amyloid Deposition in Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 304.	3.4	32
41	Combining monoenergetic extrapolations from dual-energy CT with iterative reconstructions: reduction of coil and clip artifacts from intracranial aneurysm therapy. <i>Neuroradiology</i> , 2018, 60, 281-291.	2.2	31
42	Pain modulation is affected differently in medication-overuse headache and chronic myofascial pain â€“ A multimodal MRI study. <i>Cephalalgia</i> , 2017, 37, 764-779.	3.9	29
43	Developmental Changes of BOLD Signal Correlations with Global Human EEG Power and Synchronization during Working Memory. <i>PLoS ONE</i> , 2012, 7, e39447.	2.5	29
44	Differential neural encoding of sensorimotor and visual body representations. <i>Scientific Reports</i> , 2016, 6, 37259.	3.3	27
45	Cortical substrate of bladder control in SCI and the effect of peripheral pudendal stimulation. <i>NeuroImage</i> , 2010, 49, 2983-2994.	4.2	24
46	Correlations between EEG and clinical outcome in chronic neuropathic pain: surgical effects and treatment resistance. <i>Brain Imaging and Behavior</i> , 2011, 5, 329-348.	2.1	24
47	Low episodic memory performance in cognitively normal elderly subjects is associated with increased posterior cingulate gray matter N-acetylaspartate: a 1H MRSI study at 7ÅTesla. <i>Neurobiology of Aging</i> , 2016, 48, 195-203.	3.1	24
48	Visual snow syndrome: a review on diagnosis, pathophysiology, and treatment. <i>Current Opinion in Neurology</i> , 2020, 33, 74-78.	3.6	24
49	Effects of Steroid Hormones on Sex Differences in Cerebral Perfusion. <i>PLoS ONE</i> , 2015, 10, e0135827.	2.5	23
50	The supraspinal neural correlate of bladder cold sensationâ€“An fMRI study. <i>Human Brain Mapping</i> , 2011, 32, 835-845.	3.6	21
51	Movement disorders in genetically confirmed mitochondrial disease and the putative role of the cerebellum. <i>Movement Disorders</i> , 2018, 33, 146-155.	3.9	21
52	Long-Term Effects of Self-Administered Transcranial Direct Current Stimulation in Episodic Migraine Prevention: Results of a Randomized Controlled Trial. <i>Neuromodulation</i> , 2021, 24, 890-898.	0.8	21
53	Interictal Hyperperfusion in the Higher Visual Cortex in Patients With Episodic Migraine. <i>Headache</i> , 2019, 59, 1808-1820.	3.9	20
54	Supraspinal nociceptive networks in neuropathic pain after spinal cord injury. <i>Human Brain Mapping</i> , 2021, 42, 3733-3749.	3.6	19

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55	Magnetic Resonance Spectroscopy following Mild Traumatic Brain Injury: A Systematic Review and Meta-Analysis on the Potential to Detect Posttraumatic Neurodegeneration. <i>Neurodegenerative Diseases</i> , 2020, 20, 2-11.	1.4	18
56	Disentangling the Effects of Spinal Cord Injury and Related Neuropathic Pain on Supraspinal Neuroplasticity: A Systematic Review on Neuroimaging. <i>Frontiers in Neurology</i> , 2019, 10, 1413.	2.4	18
57	Test-retest reliability of fMRI experiments during robot-assisted active and passive stepping. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 102.	4.6	17
58	Volumetric and Shape Analysis of the Thalamus and Striatum in Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 237-249.	2.6	17
59	Cortical Alterations in Medication-Overuse Headache. <i>Headache</i> , 2017, 57, 255-265.	3.9	16
60	Cortical Volume Differences in Subjects at Risk for Psychosis Are Driven by Surface Area. <i>Schizophrenia Bulletin</i> , 2020, 46, 1511-1519.	4.3	16
61	Cerebral blood flow in striatal regions is associated with apathy in patients with schizophrenia. <i>Journal of Psychiatry and Neuroscience</i> , 2019, 44, 102-110.	2.4	15
62	Age-dependent and -independent changes in attention-deficit/hyperactivity disorder (ADHD) during spatial working memory performance. <i>World Journal of Biological Psychiatry</i> , 2017, 18, 279-290.	2.6	14
63	Pre-stimulus BOLD-network activation modulates EEG spectral activity during working memory retention. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 111.	2.0	13
64	On the Modulation of Brain Activation During Simulated Weight Bearing in Supine Gait-Like Stepping. <i>Brain Topography</i> , 2016, 29, 193-205.	1.8	13
65	Reliability of supraspinal correlates to lower urinary tract stimulation in healthy participants – A fMRI study. <i>NeuroImage</i> , 2019, 191, 481-492.	4.2	13
66	Does Greater Low Frequency EEG Activity in Normal Immaturity and in Children with Epilepsy Arise in the Same Neuronal Network?. <i>Brain Topography</i> , 2011, 24, 78-89.	1.8	11
67	Neuroimaging in Neuro-Urology. <i>European Urology Focus</i> , 2020, 6, 826-837.	3.1	11
68	Shared neural mechanisms between imagined and perceived egocentric motion – A combined GVS and fMRI study. <i>Cortex</i> , 2019, 119, 20-32.	2.4	10
69	Considering non-bladder aetiologies of overactive bladder: a functional neuroimaging study. <i>BJU International</i> , 2021, 128, 586-597.	2.5	10
70	Widespread White Matter Alterations in Patients With Visual Snow Syndrome. <i>Frontiers in Neurology</i> , 2021, 12, 723805.	2.4	10
71	Hippocampal shape alterations are associated with regional $A\beta^2$ load in cognitively normal elderly individuals. <i>European Journal of Neuroscience</i> , 2017, 45, 1241-1251.	2.6	9
72	Lateral geniculate nucleus volumetry at 3T and 7T: Four different optimized magnetic-resonance-imaging sequences evaluated against a 7T reference acquisition. <i>NeuroImage</i> , 2019, 186, 399-409.	4.2	9

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73	Dimensions of pain catastrophising and specific structural and functional alterations in patients with chronic pain: Evidence in medication-overuse headache. <i>World Journal of Biological Psychiatry</i> , 2020, 21, 726-738.	2.6	9
74	Descending pain modulatory efficiency in healthy subjects is related to structure and resting connectivity of brain regions. <i>NeuroImage</i> , 2022, 247, 118742.	4.2	9
75	Virtual Hand Feedback Reduces Reaction Time in an Interactive Finger Reaching Task. <i>PLoS ONE</i> , 2016, 11, e0154807.	2.5	8
76	Brain Activation During Visually Guided Finger Movements. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 309.	2.0	8
77	Voxel-Based Morphometryâ€”from Hype to Hope. A Study on Hippocampal Atrophy in Mesial Temporal Lobe Epilepsy. <i>American Journal of Neuroradiology</i> , 2020, 41, 987-993.	2.4	8
78	Automated volumetry of hippocampal subfields in temporal lobe epilepsy. <i>Epilepsy Research</i> , 2021, 175, 106692.	1.6	8
79	The impact of levamisole and alcohol on white matter microstructure in adult chronic cocaine users. <i>Addiction Biology</i> , 2022, 27, e13149.	2.6	8
80	Baseline Perfusion Alterations Due to Acute Application of Quetiapine and Pramipexole in Healthy Adults. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw067.	2.1	7
81	Design and Application of a New Automated Fluidic Visceral Stimulation Device for Human fMRI Studies of Interoception. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016, 4, 1-12.	3.7	7
82	Neural Correlates of Stepping in Healthy Elderly: Parietal and Prefrontal Cortex Activation Reflects Cognitive-Motor Interference Effects. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 566735.	2.0	7
83	Structural brain network characteristics in patients with episodic and chronic migraine. <i>Journal of Headache and Pain</i> , 2021, 22, 8.	6.0	7
84	Where in the Brain is â€œthe Otherâ€™sâ€™ Hand? Mapping Dysfunctional Neural Networks in Somatoparaphrenia. <i>Neuroscience</i> , 2021, 476, 21-33.	2.3	7
85	Tracking tDCS induced grey matter changes in episodic migraine: a randomized controlled trial. <i>Journal of Headache and Pain</i> , 2021, 22, 139.	6.0	6
86	Increased structural covariance in brain regions for number processing and memory in children with developmental dyscalculia. <i>Journal of Neuroscience Research</i> , 2022, 100, 522-536.	2.9	6
87	Protocol for a prospective neuroimaging study investigating the supraspinal control of lower urinary tract function in healthy controls and patients with non-neurogenic lower urinary tract symptoms. <i>BMJ Open</i> , 2014, 4, e004357.	1.9	5
88	A novel infusionâ€”drainage device to assess lower urinary tract function in neuroâ€”imaging. <i>BJU International</i> , 2017, 119, 305-316.	2.5	5
89	Neuroplastic Changes in Older Adults Performing Cooperative Hand Movements. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 488.	2.0	5
90	EEG-fMRI Signal Coupling Is Modulated in Subjects With Mild Cognitive Impairment and Amyloid Deposition. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 631172.	3.4	5

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91	Investigation of Cerebral White Matter Changes After Spinal Cord Injury With a Measure of Fiber Density. <i>Frontiers in Neurology</i> , 2021, 12, 598336.	2.4	3
92	Neural correlates of visuomotor adjustments during scaling of human finger movements. <i>European Journal of Neuroscience</i> , 2017, 46, 1717-1729.	2.6	2
93	Cluster Headache Pathophysiology—A Disorder of Network Excitability?. <i>Clinical and Translational Neuroscience</i> , 2021, 5, 16.	0.9	2
94	Balancing objects on the feet — An fMRI experiment using the MR-compatible stepper MARCOS. , 2012, , .		0
95	P3-225: POSTERIOR CINGULATE GABA AND GLX ARE REDUCED IN AMNESTIC MILD COGNITIVE IMPAIRMENT. , 2014, 10, P713-P713.		0
96	P4-115: ALTERED FUNCTIONAL CONNECTIVITY AND GLOBAL NETWORK PROPERTIES IN AMNESTIC MILD COGNITIVE IMPAIRMENT. , 2014, 10, P826-P826.		0