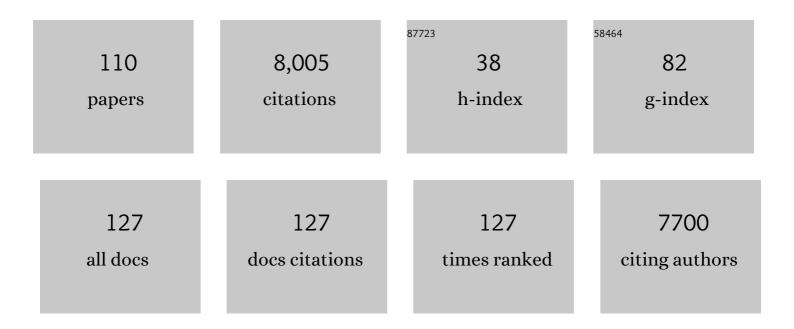
Suresh D Muthukumaraswamy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Neural correlates of the LSD experience revealed by multimodal neuroimaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4853-4858.	3.3	586
2	Resting GABA concentration predicts peak gamma frequency and fMRI amplitude in response to visual stimulation in humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8356-8361.	3.3	503
3	High-frequency brain activity and muscle artifacts in MEG/EEG: a review and recommendations. Frontiers in Human Neuroscience, 2013, 7, 138.	1.0	485
4	Mu rhythm modulation during observation of an object-directed grasp. Cognitive Brain Research, 2004, 19, 195-201.	3.3	481
5	Increased Global Functional Connectivity Correlates with LSD-Induced Ego Dissolution. Current Biology, 2016, 26, 1043-1050.	1.8	371
6	Broadband Cortical Desynchronization Underlies the Human Psychedelic State. Journal of Neuroscience, 2013, 33, 15171-15183.	1.7	364
7	Orientation Discrimination Performance Is Predicted by GABA Concentration and Gamma Oscillation Frequency in Human Primary Visual Cortex. Journal of Neuroscience, 2009, 29, 15721-15726.	1.7	304
8	Increased spontaneous MEG signal diversity for psychoactive doses of ketamine, LSD and psilocybin. Scientific Reports, 2017, 7, 46421.	1.6	266
9	Functional Properties of Human Primary Motor Cortex Gamma Oscillations. Journal of Neurophysiology, 2010, 104, 2873-2885.	0.9	229
10	Evidence that Subanesthetic Doses of Ketamine Cause Sustained Disruptions of NMDA and AMPA-Mediated Frontoparietal Connectivity in Humans. Journal of Neuroscience, 2015, 35, 11694-11706.	1.7	202
11	Primary motor cortex activation during action observation revealed by wavelet analysis of the EEG. Clinical Neurophysiology, 2004, 115, 1760-1766.	0.7	180
12	Instead of "playing the game―it is time to change the rules: Registered Reports at AIMS Neuroscience and beyond. AIMS Neuroscience, 2014, 1, 4-17.	1.0	170
13	Visual gamma oscillations and evoked responses: Variability, repeatability and structural MRI correlates. NeuroImage, 2010, 49, 3349-3357.	2.1	158
14	Visual gamma oscillations: The effects of stimulus type, visual field coverage and stimulus motion on MEG and EEG recordings. Neurolmage, 2013, 69, 223-230.	2.1	149
15	The effects of elevated endogenous GABA levels on movement-related network oscillations. NeuroImage, 2013, 66, 36-41.	2.1	148
16	Neural correlates of the DMT experience assessed with multivariate EEG. Scientific Reports, 2019, 9, 16324.	1.6	144
17	Blinding and expectancy confounds in psychedelic randomized controlled trials. Expert Review of Clinical Pharmacology, 2021, 14, 1133-1152.	1.3	133
18	Differences in excitatory and inhibitory neurotransmitter levels between depressed patients and healthy controls: A systematic review and meta-analysis. Journal of Psychiatric Research, 2018, 105, 33-44.	1.5	130

IF # ARTICLE CITATIONS Spectral Properties of Induced and Evoked Gamma Oscillations in Human Early Visual Cortex to 114 Moving and Stationary Stimuli. Journal of Neurophysiology, 2009, 102, 1241-1253. Individual variability in the shape and amplitude of the BOLDâ€HRF correlates with endogenous 20 1.9 109 GABAergic inhibition. Human Brain Mapping, 2012, 33, 455-465. Ketamine amplifies induced gamma frequency oscillations in the human cerebral cortex. European 0.3 105 Neuropsychopharmacology, 2015, 25, 1136-1146. 1/f electrophysiological spectra in resting and drug-induced states can be explained by the dynamics of 22 2.1 99 multiple oscillatory relaxation processes. NeuroImage, 2018, 179, 582-595. Almost winning: Induced MEG theta power in insula and orbitofrontal cortex increases during gambling near-misses and is associated with BOLD signal and gambling severity. NeuroImage, 2014, 91, 210-219. 2.1 96 LSD modulates music-induced imagery via changes in parahippocampal connectivity. European Neuropsychopharmacology, 2016, 26, 1099-1109. 24 0.3 95 Spatiotemporal frequency tuning of BOLD and gamma band MEG responses compared in primary visual 2.1 84 cortex. NeuroImage, 2008, 40, 1552-1560. Acute Biphasic Effects of Ayahuasca. PLoS ONE, 2015, 10, e0137202. 26 1.1 82 A cautionary note on the interpretation of phase-locking estimates with concurrent changes in 78 power. Clinical Neurophysiology, 2011, 122, 2324-2325 28 Cerebral blood flow predicts differential neurotransmitter activity. Scientific Reports, 2018, 8, 4074. 1.6 78 Alzheimer's disease disrupts alpha and beta-band resting-state oscillatory network connectivity. 0.7 Clinical Neurophysiology, 2017, 128, 2347-2357. Functional and structural correlates of the aging brain: Relating visual cortex (V1) gamma band 30 1.9 76 responses to ageâ€related structural change. Human Brain Mapping, 2012, 33, 2035-2046. Modulation of the human mirror neuron system during cognitive activity. Psychophysiology, 2008, 45, 1.2 896-905. The properties of induced gamma oscillations in human visual cortex show individual variability in 32 2.158 their dependence on stimulus size. NeuroImage, 2013, 68, 83-92. Hyperconnectivity in juvenile myoclonic epilepsy: A network analysis. NeuroImage: Clinical, 2015, 7, 33 1.4 56 98-104. Consciousness is supported by near-critical slow cortical electrodynamics. Proceedings of the 34 3.3 56 National Academy of Sciences of the United States of America, 2022, 119, . Functional decoupling of BOLD and gammaâ€band amplitudes in human primary visual cortex. Human Brain Mapping, 2009, 30, 2000-2007 Acute Effects of Alcohol on Stimulus-Induced Gamma Oscillations in Human Primary Visual and Motor 36 2.8 49 Cortices. Neuropsychopharmacology, 2014, 39, 2104-2113.

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37	Decreased directed functional connectivity in the psychedelic state. NeuroImage, 2020, 209, 116462.	2.1	49
38	Temporal dynamics of primary motor cortex gamma oscillation amplitude and piper corticomuscular coherence changes during motor control. Experimental Brain Research, 2011, 212, 623-633.	0.7	48
39	Enhanced Stimulus-Induced Gamma Activity in Humans during Propofol-Induced Sedation. PLoS ONE, 2013, 8, e57685.	1.1	47
40	Induced and evoked neural correlates of orientation selectivity in human visual cortex. NeuroImage, 2011, 54, 2983-2993.	2.1	46
41	Neurophysiologically-informed markers of individual variability and pharmacological manipulation of human cortical gamma. Neurolmage, 2017, 161, 19-31.	2.1	43
42	LSD modulates effective connectivity and neural adaptation mechanisms in an auditory oddball paradigm. Neuropharmacology, 2018, 142, 251-262.	2.0	42
43	Neural processing of observed oro-facial movements reflects multiple action encoding strategies in the human brain. Brain Research, 2006, 1071, 105-112.	1.1	40
44	Arterial CO ₂ Fluctuations Modulate Neuronal Rhythmicity: Implications for MEG and fMRI Studies of Resting-State Networks. Journal of Neuroscience, 2016, 36, 8541-8550.	1.7	39
45	Evidence for increased visual gamma responses in photosensitive epilepsy. Epilepsy Research, 2014, 108, 1076-1086.	0.8	37
46	Simultaneous EEG/fMRI recorded during ketamine infusion in patients with major depressive disorder. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 99, 109838.	2.5	36
47	Elevating Endogenous GABA Levels with GAT-1 Blockade Modulates Evoked but Not Induced Responses in Human Visual Cortex. Neuropsychopharmacology, 2013, 38, 1105-1112.	2.8	35
48	The use of magnetoencephalography in the study of psychopharmacology (pharmaco-MEG). Journal of Psychopharmacology, 2014, 28, 815-829.	2.0	34
49	Differences between magnetoencephalographic (MEG) spectral profiles of drugs acting on GABA at synaptic and extrasynaptic sites: A study in healthy volunteers. Neuropharmacology, 2015, 88, 155-163.	2.0	34
50	BOLD Responses in Human Primary Visual Cortex are Insensitive to Substantial Changes in Neural Activity. Frontiers in Human Neuroscience, 2013, 7, 76.	1.0	33
51	Peak visual gamma frequency is modified across the healthy menstrual cycle. Human Brain Mapping, 2018, 39, 3187-3202.	1.9	33
52	The challenges ahead for psychedelic â€~medicine'. Australian and New Zealand Journal of Psychiatry, 2022, 56, 1378-1383.	1.3	33
53	A high density ERP comparison of mental rotation and mental size transformation. Brain and Cognition, 2003, 52, 271-280.	0.8	32
54	Spatial attention increases high-frequency gamma synchronisation in human medial visual cortex. NeuroImage, 2013, 79, 295-303.	2.1	32

#	Article	IF	CITATIONS
55	Significant reductions in human visual gamma frequency by the gaba reuptake inhibitor tiagabine revealed by robust peak frequency estimation. Human Brain Mapping, 2016, 37, 3882-3896.	1.9	32
56	A qualitative and quantitative account of patient's experiences of ketamine and its antidepressant properties. Journal of Psychopharmacology, 2021, 35, 946-961.	2.0	32
57	Spectral signatures of serotonergic psychedelics and glutamatergic dissociatives. NeuroImage, 2019, 200, 281-291.	2.1	31
58	Ketamine Enhances Visual Sensory Evoked Potential Long-term Potentiation in Patients With Major Depressive Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 45-55.	1.1	31
59	Feature integration in visual working memory: parietal gamma activity is related to cognitive coordination. Journal of Neurophysiology, 2011, 106, 3185-3194.	0.9	30
60	Marked Reductions in Visual Evoked Responses But Not Î ³ -Aminobutyric Acid Concentrations or Î ³ -Band Measures in Remitted Depression. Biological Psychiatry, 2013, 73, 691-698.	0.7	30
61	Indexing sensory plasticity: Evidence for distinct Predictive Coding and Hebbian learning mechanisms in the cerebral cortex. NeuroImage, 2018, 176, 290-300.	2.1	30
62	The role of Hebbian learning in human perception: a methodological and theoretical review of the human Visual Long-Term Potentiation paradigm. Neuroscience and Biobehavioral Reviews, 2020, 115, 220-237.	2.9	29
63	Comparison of local spectral modulation, and temporal correlation, of simultaneously recorded EEG/fMRI signals during ketamine and midazolam sedation. Psychopharmacology, 2018, 235, 3479-3493.	1.5	28
64	Restingâ€state oscillatory dynamics in sensorimotor cortex in benign epilepsy with centroâ€ŧemporal spikes and typical brain development. Human Brain Mapping, 2015, 36, 3935-3949.	1.9	27
65	Long-term enhanced desynchronization of the alpha rhythm following tetanic stimulation of human visual cortex. Neuroscience Letters, 2006, 398, 220-223.	1.0	25
66	Neural plasticity is modified over the human menstrual cycle: Combined insight from sensory evoked potential LTP and repetition suppression. Neurobiology of Learning and Memory, 2018, 155, 422-434.	1.0	24
67	The neurophysiology of ketamine: an integrative review. Reviews in the Neurosciences, 2020, 31, 457-503.	1.4	24
68	STIMULUS EQUIVALENCE: TESTING SIDMAN'S (2000) THEORY. Journal of the Experimental Analysis of Behavior, 2006, 85, 371-391.	0.8	23
69	Enhanced Awareness Followed Reversible Inhibition of Human Visual Cortex: A Combined TMS, MRS and MEG Study. PLoS ONE, 2014, 9, e100350.	1.1	23
70	Juvenile myoclonic epilepsy shows increased posterior theta, and reduced sensorimotor beta resting connectivity. Epilepsy Research, 2020, 163, 106324.	0.8	21
71	Effects of ketamine and midazolam on resting state connectivity and comparison with ENIGMA connectivity deficit patterns in schizophrenia. Human Brain Mapping, 2020, 41, 767-778.	1.9	19
72	An open-label feasibility study of repetitive transcranial magnetic stimulation (rTMS) for treatment-resistant depression in the New Zealand healthcare context. New Zealand Medical Journal, 2019, 132, 46-55.	0.5	19

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#	Article	IF	CITATIONS
91	On the Quality, Statistical Efficiency, and Safety of Simultaneously Recorded Multiband fMRI/EEG. Brain Topography, 2020, 33, 303-316.	0.8	9
92	Constrained temporal parallel decomposition for EEG-fMRI fusion. Journal of Neural Engineering, 2019, 16, 016017.	1.8	8
93	MDLSD: study protocol for a randomised, double-masked, placebo-controlled trial of repeated microdoses of LSD in healthy volunteers. Trials, 2021, 22, 302.	0.7	8
94	A Dual Mechanism Neural Framework for Social Understanding. Philosophical Psychology, 2007, 20, 43-63.	0.5	7
95	The cost of serially chaining two cognitive operations. Psychological Research, 2012, 76, 566-578.	1.0	7
96	Magnetoencephalographic correlates of processes supporting long-term memory judgments. Brain Research, 2009, 1283, 73-83.	1.1	6
97	An MEG investigation of the neural mechanisms subserving complex visuomotor coordinationâ [*] †. International Journal of Psychophysiology, 2011, 79, 296-304.	0.5	6
98	Induced and Evoked Properties of Vibrotactile Adaptation in the Primary Somatosensory Cortex. Neural Plasticity, 2019, 2019, 1-9.	1.0	6
99	Cancer Healthcare Workers' Perceptions toward Psychedelic-Assisted Therapy: A Preliminary Investigation. International Journal of Environmental Research and Public Health, 2021, 18, 8160.	1.2	6
100	Ipsilateral cortical motor desynchronisation is reduced in Benign Epilepsy with Centro-Temporal Spikes. Clinical Neurophysiology, 2016, 127, 1147-1156.	0.7	5
101	The role of sustained posterior brain activity in the serial chaining of two cognitive operations: A <scp>MEG</scp> study. Psychophysiology, 2012, 49, 1133-1144.	1.2	4
102	Multi-band component analysis for EEG artifact removal and source reconstruction with application to gamma-band activity. Biomedical Physics and Engineering Express, 2018, 4, 035007.	0.6	4
103	Effects of Ketamine and Midazolam on Simultaneous EEG/fMRI Data During Working Memory Processes. Brain Topography, 2021, 34, 863-880.	0.8	3
104	A comparison of GABA-ergic (propofol) and non-GABA-ergic (dexmedetomidine) sedation on visual and motor cortical oscillations, using magnetoencephalography. NeuroImage, 2021, 245, 118659.	2.1	3
105	Tiagabine induced modulation of oscillatory connectivity and activity match PET-derived, canonical GABA-A receptor distributions. European Neuropsychopharmacology, 2021, 50, 34-45.	0.3	2
106	Evidence that smooth pursuit velocity, not eye position, modulates alpha and beta oscillations in human middle temporal cortex. Human Brain Mapping, 2015, 36, 5220-5232.	1.9	1
107	Brain waves. , 2019, , 43-47.		1
108	A randomised, double-blind, active placebo-controlled, parallel groups, dose-response study of scopolamine hydrobromide (4–6 μg/kg) in patients with major depressive disorder. Trials, 2020, 21, 157.	0.7	1

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#	Article	IF	CITATIONS
109	19th biennial IPEG Meeting. Neuropsychiatric Electrophysiology, 2016, 2, .	4.1	Ο
	Introduction to AIMS Special Issue & Commo Frequency Oscillations and NMDA Desentors		

Introduction to AIMS Special Issue "How do Gamma Frequency Oscillations and NMDA Receptors Contribute to Normal and Dysfunctional Cognitive Performance― AIMS Neuroscience, 2014, 1, 183-184.