Suresh D Muthukumaraswamy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Decreased salience network fMRI functional connectivity following a course of rTMS for treatment-resistant depression. Journal of Affective Disorders, 2022, 300, 235-242.	2.0	16
2	Consciousness is supported by near-critical slow cortical electrodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	56
3	The challenges ahead for psychedelic â€~medicine'. Australian and New Zealand Journal of Psychiatry, 2022, 56, 1378-1383.	1.3	33
4	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
5	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
6	Blinding and expectancy confounds in psychedelic randomized controlled trials. Expert Review of Clinical Pharmacology, 2021, 14, 1133-1152.	1.3	133
7	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
8	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
9	Effect of rTMS on GABA and glutamate levels in treatment-resistant depression: An MR spectroscopy study. Psychiatry Research - Neuroimaging, 2021, 317, 111377.	0.9	16
10	Effects of Ketamine and Midazolam on Simultaneous EEG/fMRI Data During Working Memory Processes. Brain Topography, 2021, 34, 863-880.	0.8	3
11	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
12	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
13	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
14	Evidence that alpha blocking is due to increases in system-level oscillatory damping not neuronal population desynchronisation. NeuroImage, 2020, 208, 116408.	2.1	9
15	Decreased directed functional connectivity in the psychedelic state. NeuroImage, 2020, 209, 116462.	2.1	49
16	Modulation of simultaneously collected hemodynamic and electrophysiological functional connectivity by ketamine and midazolam. Human Brain Mapping, 2020, 41, 1472-1494.	1.9	14
17	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
18	Generative modelling of the thalamo-cortical circuit mechanisms underlying the neurophysiological effects of ketamine. NeuroImage, 2020, 221, 117189.	2.1	15

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19	Ketamine improves short-term plasticity in depression by enhancing sensitivity to prediction errors. European Neuropsychopharmacology, 2020, 38, 73-85.	0.3	15
20	Extraction of Common Task Features in EEG-fMRI Data Using Coupled Tensor-Tensor Decomposition. Brain Topography, 2020, 33, 636-650.	0.8	15
21	Juvenile myoclonic epilepsy shows increased posterior theta, and reduced sensorimotor beta resting connectivity. Epilepsy Research, 2020, 163, 106324.	0.8	21
22	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
23	On the Quality, Statistical Efficiency, and Safety of Simultaneously Recorded Multiband fMRI/EEG. Brain Topography, 2020, 33, 303-316.	0.8	9
24	Source-level Cortical Power Changes for Xenon and Nitrous Oxide–induced Reductions in Consciousness in Healthy Male Volunteers. Anesthesiology, 2020, 132, 1017-1033.	1.3	12
25	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
26	The neurophysiology of ketamine: an integrative review. Reviews in the Neurosciences, 2020, 31, 457-503.	1.4	24
27	Temporal dynamics of the pharmacological MRI response to subanaesthetic ketamine in healthy volunteers: A simultaneous EEC/fMRI study. Journal of Psychopharmacology, 2019, 33, 219-229.	2.0	18
28	Spectral signatures of serotonergic psychedelics and glutamatergic dissociatives. NeuroImage, 2019, 200, 281-291.	2.1	31
29	Induced and Evoked Properties of Vibrotactile Adaptation in the Primary Somatosensory Cortex. Neural Plasticity, 2019, 2019, 1-9.	1.0	6
30	Brain waves. , 2019, , 43-47.		1
31	Neural correlates of the DMT experience assessed with multivariate EEG. Scientific Reports, 2019, 9, 16324.	1.6	144
32	Constrained temporal parallel decomposition for EEG-fMRI fusion. Journal of Neural Engineering, 2019, 16, 016017.	1.8	8
33	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
34	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
35	Peak visual gamma frequency is modified across the healthy menstrual cycle. Human Brain Mapping, 2018, 39, 3187-3202.	1.9	33
36	Indexing sensory plasticity: Evidence for distinct Predictive Coding and Hebbian learning mechanisms in the cerebral cortex. NeuroImage, 2018, 176, 290-300.	2.1	30

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37	Cerebral blood flow predicts differential neurotransmitter activity. Scientific Reports, 2018, 8, 4074.	1.6	78
38	LSD modulates effective connectivity and neural adaptation mechanisms in an auditory oddball paradigm. Neuropharmacology, 2018, 142, 251-262.	2.0	42
39	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
40	Using Baclofen to Explore GABA-B Receptor Function in Alcohol Dependence: Insights From Pharmacokinetic and Pharmacodynamic Measures. Frontiers in Psychiatry, 2018, 9, 664.	1.3	18
41	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
42	1/f electrophysiological spectra in resting and drug-induced states can be explained by the dynamics of multiple oscillatory relaxation processes. NeuroImage, 2018, 179, 582-595.	2.1	99
43	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
44	Increased spontaneous MEG signal diversity for psychoactive doses of ketamine, LSD and psilocybin. Scientific Reports, 2017, 7, 46421.	1.6	266
45	Alzheimer's disease disrupts alpha and beta-band resting-state oscillatory network connectivity. Clinical Neurophysiology, 2017, 128, 2347-2357.	0.7	77
46	Benign childhood epilepsy with centrotemporal spikes (BECTS) and developmental co-ordination disorder. Epilepsy and Behavior, 2017, 72, 122-126.	0.9	13
47	Neurophysiologically-informed markers of individual variability and pharmacological manipulation of human cortical gamma. NeuroImage, 2017, 161, 19-31.	2.1	43
48	The effects of AMPA receptor blockade on resting magnetoencephalography recordings. Journal of Psychopharmacology, 2017, 31, 1527-1536.	2.0	14
49	The effects of AMPA blockade on the spectral profile of human early visual cortex recordings studied with non-invasive MEG. Cortex, 2016, 81, 266-275.	1.1	14
50	Increased Global Functional Connectivity Correlates with LSD-Induced Ego Dissolution. Current Biology, 2016, 26, 1043-1050.	1.8	371
51	LSD modulates music-induced imagery via changes in parahippocampal connectivity. European Neuropsychopharmacology, 2016, 26, 1099-1109.	0.3	95
52	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
53	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
54	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

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55	19th biennial IPEG Meeting. Neuropsychiatric Electrophysiology, 2016, 2, .	4.1	Ο
56	Ipsilateral cortical motor desynchronisation is reduced in Benign Epilepsy with Centro-Temporal Spikes. Clinical Neurophysiology, 2016, 127, 1147-1156.	0.7	5
57	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
58	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
59	Acute Biphasic Effects of Ayahuasca. PLoS ONE, 2015, 10, e0137202.	1.1	82
60	Ketamine amplifies induced gamma frequency oscillations in the human cerebral cortex. European Neuropsychopharmacology, 2015, 25, 1136-1146.	0.3	105
61	Hyperconnectivity in juvenile myoclonic epilepsy: A network analysis. NeuroImage: Clinical, 2015, 7, 98-104.	1.4	56
62	Increased visual gamma power in schizoaffective bipolar disorder. Psychological Medicine, 2015, 45, 783-794.	2.7	16
63	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
64	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
65	Enhanced Awareness Followed Reversible Inhibition of Human Visual Cortex: A Combined TMS, MRS and MEG Study. PLoS ONE, 2014, 9, e100350.	1.1	23
66	Acute Effects of Alcohol on Stimulus-Induced Gamma Oscillations in Human Primary Visual and Motor Cortices. Neuropsychopharmacology, 2014, 39, 2104-2113.	2.8	49
67	The use of magnetoencephalography in the study of psychopharmacology (pharmaco-MEG). Journal of Psychopharmacology, 2014, 28, 815-829.	2.0	34
68	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
69	Tiagabine-induced stupor — More evidence for an encephalopathy. Epilepsy and Behavior, 2014, 31, 196-197.	0.9	9
70	Evidence for increased visual gamma responses in photosensitive epilepsy. Epilepsy Research, 2014, 108, 1076-1086.	0.8	37
71	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
72	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.	1.0	0

IF # ARTICLE CITATIONS Cortical oscillatory changes in human middle temporal cortex underlying smooth pursuit eye movements. Human Brain Mapping, 2013, 34, 837-851. Visual gamma oscillations: The effects of stimulus type, visual field coverage and stimulus motion on 74 2.1149 MEG and EEG recordings. NeuroImage, 2013, 69, 223-230. Broadband Cortical Desynchronization Underlies the Human Psychedelic State. Journal of 1.7 364 Neuroscience, 2013, 33, 15171-15183. Marked Reductions in Visual Evoked Responses But Not Î³-Aminobutyric Acid Concentrations or Î³-Band 76 0.7 30 Measures in Remitted Depression. Biological Psychiatry, 2013, 73, 691-698. The properties of induced gamma oscillations in human visual cortex show individual variability in 2.1 58 their dependence on stimulus size. NeuroImage, 2013, 68, 83-92. Spatial attention increases high-frequency gamma synchronisation in human medial visual cortex. 78 2.1 32 Neurolmage, 2013, 79, 295-303. The effects of elevated endogenous GABA levels on movement-related network oscillations. 79 2.1 148 Neurolmage, 2013, 66, 36-41. Elevating Endogenous GABA Levels with GAT-1 Blockade Modulates Evoked but Not Induced Responses 80 2.8 35 in Human Visual Cortex. Neuropsychopharmacology, 2013, 38, 1105-1112. Enhanced Stimulus-Induced Gamma Activity in Humans during Propofol-Induced Sedation. PLoS ONE, 1.1 2013, 8, e57685. BOLD Responses in Human Primary Visual Cortex are Insensitive to Substantial Changes in Neural 82 1.0 33 Activity. Frontiers in Human Neuroscience, 2013, 7, 76. High-frequency brain activity and muscle artifacts in MEG/EEG: a review and recommendations. 83 485 Frontiers in Human Neuroscience, 2013, 7, 138. The role of sustained posterior brain activity in the serial chaining of two cognitive operations: A 84 1.2 4 <scp>MEG</scp> study. Psychophysiology, 2012, 49, 1133-1144. The cost of serially chaining two cognitive operations. Psychological Research, 2012, 76, 566-578. 1.0 Functional and structural correlates of the aging brain: Relating visual cortex (V1) gamma band 86 1.9 76 responses to ageâ€related structural change. Human Brain Mapping, 2012, 33, 2035-2046. Individual variability in the shape and amplitude of the BOLDâ€HRF correlates with endogenous 109 GABAergic inhibition. Human Brain Mapping, 2012, 33, 455-465. A cautionary note on the interpretation of phase-locking estimates with concurrent changes in 88 0.7 78 power. Clinical Neurophysiology, 2011, 122, 2324-2325. Reduced movement-related beta desynchronisation in juvenile myoclonic epilepsy: A MEG study of task specific cortical modulation. Clinical Neurophysiology, 2011, 122, 2128-2138. An MEG investigation of the neural mechanisms subserving complex visuomotor coordinationa²†. 90 0.5 6 International Journal of Psychophysiology, 2011, 79, 296-304.

IF # ARTICLE CITATIONS Feature integration in visual working memory: parietal gamma activity is related to cognitive coordination. Journal of Neurophysiology, 2011, 106, 3185-3194. Induced and evoked neural correlates of orientation selectivity in human visual cortex. NeuroImage, 92 2.146 2011, 54, 2983-2993. Temporal dynamics of primary motor cortex gamma oscillation amplitude and piper corticomuscular 48 coherence changes during motor control. Experimental Brain Research, 2011, 212, 623-633. EMERGENT STIMULUS RELATIONS DEPEND ON STIMULUS CORRELATION AND NOT ON REINFORCEMENT 94 0.8 18 CONTINGENCIES. Journal of the Experimental Analysis of Behavior, 2011, 95, 327-342. Functional Properties of Human Primary Motor Cortex Gamma Oscillations. Journal of 229 Neurophysiology, 2010, 104, 2873-2885. Visual gamma oscillations and evoked responses: Variability, repeatability and structural MRI 96 2.1 158 correlates. NeuroImage, 2010, 49, 3349-3357. Orientation Discrimination Performance Is Predicted by GABA Concentration and Gamma Oscillation 1.7 304 Frequency in Human Primary Visual Cortex. Journal of Neuroscience, 2009, 29, 15721-15726. Resting GABA concentration predicts peak gamma frequency and fMRI amplitude in response to visual 98 stimulation in humans. Proceedings of the National Academy of Sciences of the United States of 3.3 503 America, 2009, 106, 8356-8361. 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. Magnetoencephalographic correlates of processes supporting long-term memory judgments. Brain 100 1.1 6 Research, 2009, 1283, 73-83. Functional decoupling of BOLD and gammaâ€band amplitudes in human primary visual cortex. Human Brain Mapping, 2009, 30, 2000-2007 Modulation of the human mirror neuron system during cognitive activity. Psychophysiology, 2008, 45, 102 1.2 62 896-905. Spatiotemporal frequency tuning of BOLD and gamma band MEG responses compared in primary visual cortex. NeuroImage, 2008, 40, 1552-1560. 2.1 84 A Dual Mechanism Neural Framework for Social Understanding. Philosophical Psychology, 2007, 20, 104 0.5 7 43-63. STIMULUS EQUIVALENCE: TESTING SIDMAN'S (2000) THEORY. Journal of the Experimental Analysis of 23 Behavior, 2006, 85, 371-391. Long-term enhanced desynchronization of the alpha rhythm following tetanic stimulation of human 106 1.0 25 visual cortex. Neuroscience Letters, 2006, 398, 220-223. Neural processing of observed oro-facial movements reflects multiple action encoding strategies in 1.1 40 the human brain. Brain Research, 2006, 1071, 105-112. Mu rhythm modulation during observation of an object-directed grasp. Cognitive Brain Research, 108 3.3 481 2004, 19, 195-201.

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109	Primary motor cortex activation during action observation revealed by wavelet analysis of the EEG. Clinical Neurophysiology, 2004, 115, 1760-1766.	0.7	180
110	A high density ERP comparison of mental rotation and mental size transformation. Brain and Cognition, 2003, 52, 271-280.	0.8	32