

# Simon Farmer

## List of Publications by Citations

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102  
papers

6,441  
citations

38  
h-index

80  
g-index

113  
ext. papers

7,473  
ext. citations

5.6  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
102	A framework for the analysis of mixed time series/point process data--theory and application to the study of physiological tremor, single motor unit discharges and electromyograms. <i>Progress in Biophysics and Molecular Biology</i> , <b>1995</b> , 64, 237-78	4.7	816
101	Synchronization between motor cortex and spinal motoneuronal pool during the performance of a maintained motor task in man. <i>Journal of Physiology</i> , <b>1995</b> , 489 ( Pt 3), 917-24	3.9	599
100	The emerging spectrum of COVID-19 neurology: clinical, radiological and laboratory findings. <i>Brain</i> , <b>2020</b> , 143, 3104-3120	11.2	543
99	Characteristics of ischaemic stroke associated with COVID-19. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2020</b> , 91, 889-891	5.5	440
98	The frequency content of common synaptic inputs to motoneurons studied during voluntary isometric contraction in man. <i>Journal of Physiology</i> , <b>1993</b> , 470, 127-55	3.9	339
97	Using electroencephalography to study functional coupling between cortical activity and electromyograms during voluntary contractions in humans. <i>Neuroscience Letters</i> , <b>1998</b> , 241, 5-8	3.3	296
96	Rhythmicity, synchronization and binding in human and primate motor systems. <i>Journal of Physiology</i> , <b>1998</b> , 509 ( Pt 1), 3-14	3.9	203
95	Plasticity of central motor pathways in children with hemiplegic cerebral palsy. <i>Neurology</i> , <b>1991</b> , 41, 1505-10	3.0	177
94	Randomised trial of oral and intravenous methylprednisolone in acute relapses of multiple sclerosis. <i>Lancet, The</i> , <b>1997</b> , 349, 902-6	40	171
93	The effects of physical and semantic incongruities on auditory event-related potentials. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , <b>1984</b> , 59, 477-88		165
92	Load-independent contributions from motor-unit synchronization to human physiological tremor. <i>Journal of Neurophysiology</i> , <b>1999</b> , 82, 664-75	3.2	161
91	Changes in motor unit synchronization following central nervous lesions in man. <i>Journal of Physiology</i> , <b>1993</b> , 463, 83-105	3.9	141
90	Coherent cortical and muscle discharge in cortical myoclonus. <i>Brain</i> , <b>1999</b> , 122 ( Pt 3), 461-72	11.2	136
89	Mirror movements studied in a patient with Klippel-Feil syndrome. <i>Journal of Physiology</i> , <b>1990</b> , 428, 467-84	3.4	134
88	Central nervous pathways underlying synchronization of human motor unit firing studied during voluntary contractions. <i>Journal of Physiology</i> , <b>1991</b> , 432, 401-25	3.9	119
87	Epidemiological and cohort study finds no association between COVID-19 and Guillain-Barré syndrome. <i>Brain</i> , <b>2021</b> , 144, 682-693	11.2	106
86	A review of recent applications of cross-correlation methodologies to human motor unit recording. <i>Journal of Neuroscience Methods</i> , <b>1997</b> , 74, 175-87	3	87

85	Coherence between low-frequency activation of the motor cortex and tremor in patients with essential tremor. <i>Lancet, The</i> , <b>2000</b> , 355, 1149-53	40	85
84	Detecting the presence of long-range temporal correlations in a time-varying measure of phase synchrony. <i>BMC Neuroscience</i> , <b>2011</b> , 12,	3.2	78
83	Role of STDP and heterogeneity in the emergence of long-range temporal correlations and frequency scaling in networks of LIF neurons. <i>BMC Neuroscience</i> , <b>2010</b> , 11,	3.2	78
82	Abnormal motor unit synchronization of antagonist muscles underlies pathological co-contraction in upper limb dystonia. <i>Brain</i> , <b>1998</b> , 121 ( Pt 5), 801-14	11.2	78
81	Triple dissociation of attention and decision computations across prefrontal cortex. <i>Nature Neuroscience</i> , <b>2018</b> , 21, 1471-1481	25.5	78
80	On the need for rectification of surface EMG. <i>Journal of Neurophysiology</i> , <b>2010</b> , 103, 3547; author reply 3548-9	3.2	71
79	On the localization of the stretch reflex of intrinsic hand muscles in a patient with mirror movements. <i>Journal of Physiology</i> , <b>1990</b> , 428, 561-77	3.9	69
78	Changes in EMG coherence between long and short thumb abductor muscles during human development. <i>Journal of Physiology</i> , <b>2007</b> , 579, 389-402	3.9	66
77	Gait training facilitates central drive to ankle dorsiflexors in children with cerebral palsy. <i>Brain</i> , <b>2015</b> , 138, 589-603	11.2	61
76	Childhood development of common drive to a human leg muscle during ankle dorsiflexion and gait. <i>Journal of Physiology</i> , <b>2010</b> , 588, 4387-400	3.9	54
75	Rectification of EMG in low force contractions improves detection of motor unit coherence in the beta-frequency band. <i>Journal of Neurophysiology</i> , <b>2013</b> , 110, 1744-50	3.2	53
74	The unilateral and bilateral control of motor unit pairs in the first dorsal interosseous and paraspinal muscles in man. <i>Journal of Physiology</i> , <b>1999</b> , 521 Pt 2, 553-64	3.9	49
73	Neural rhythms in Parkinson's disease. <i>Brain</i> , <b>2002</b> , 125, 1175-6	11.2	47
72	Upbeat nystagmus: clinicoanatomical correlation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>1998</b> , 65, 380-1	5.5	46
71	Human EEG shows long-range temporal correlations of oscillation amplitude in Theta, Alpha and Beta bands across a wide age range. <i>Clinical Neurophysiology</i> , <b>2010</b> , 121, 1187-97	4.3	44
70	Changes in the location of cortico-muscular coherence following stroke. <i>NeuroImage: Clinical</i> , <b>2012</b> , 2, 50-5	5.3	42
69	Clinical diagnosis of propriospinal myoclonus is unreliable: an electrophysiologic study. <i>Movement Disorders</i> , <b>2013</b> , 28, 1868-73	7	42
68	On the development of human corticospinal oscillations: age-related changes in EEG-EMG coherence and cumulant. <i>European Journal of Neuroscience</i> , <b>2008</b> , 27, 3369-79	3.5	42

67	Abnormal cortex-muscle interactions in subjects with X-linked Kallmann's syndrome and mirror movements. <i>Brain</i> , <b>2004</b> , 127, 385-97	11.2	42
66	Infratentorial superficial siderosis: Classification, diagnostic criteria, and rational investigation pathway. <i>Annals of Neurology</i> , <b>2017</b> , 81, 333-343	9.4	41
65	Common 3 and 10 Hz oscillations modulate human eye and finger movements while they simultaneously track a visual target. <i>Journal of Physiology</i> , <b>1999</b> , 515 ( Pt 3), 905-17	3.9	38
64	Propagation of beta/gamma rhythms in the cortico-basal ganglia circuits of the parkinsonian rat. <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 1608-1628	3.2	36
63	Markers of criticality in phase synchronization. <i>Frontiers in Systems Neuroscience</i> , <b>2014</b> , 8, 176	3.5	33
62	Failure of normal development of central drive to ankle dorsiflexors relates to gait deficits in children with cerebral palsy. <i>Journal of Neurophysiology</i> , <b>2013</b> , 109, 625-39	3.2	32
61	Physiological tremor in human subjects with X-linked Kallmann's syndrome and mirror movements. <i>Journal of Physiology</i> , <b>2001</b> , 530, 551-63	3.9	26
60	Psychogenic axial myoclonus: clinical features and long-term outcome. <i>Parkinsonism and Related Disorders</i> , <b>2014</b> , 20, 596-9	3.6	24
59	The effect of oral and intravenous methylprednisolone treatment on subsequent relapse rate in multiple sclerosis. <i>Journal of the Neurological Sciences</i> , <b>2000</b> , 173, 73-7	3.2	24
58	Myelopathy following influenza vaccination in inflammatory CNS disorder treated with chronic immunosuppression. <i>European Journal of Neurology</i> , <b>2000</b> , 7, 731-3	6	23
57	Long-range temporal correlations in the EEG bursts of human preterm babies. <i>PLoS ONE</i> , <b>2012</b> , 7, e31543	3.7	21
56	A critical period of corticomuscular and EMG-EMG coherence detection in healthy infants aged 9-25 weeks. <i>Journal of Physiology</i> , <b>2017</b> , 595, 2699-2713	3.9	20
55	Functional near infrared spectroscopy as a probe of brain function in people with prolonged disorders of consciousness. <i>NeuroImage: Clinical</i> , <b>2016</b> , 12, 312-9	5.3	20
54	Attention deficits following ADEM ameliorated by guanfacine. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2011</b> , 82, 688-90	5.5	19
53	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> , <b>2016</b> , 10, 517	3.3	18
52	Patients with a severe prolonged Disorder of Consciousness can show classical EEG responses to their own name compared with others' names. <i>NeuroImage: Clinical</i> , <b>2018</b> , 19, 311-319	5.3	17
51	Herpes simplex encephalitis: an audit of the use of laboratory diagnostic tests. <i>QJM - Monthly Journal of the Association of Physicians</i> , <b>2004</b> , 97, 325-30	2.7	16
50	Adaptive time-varying detrended fluctuation analysis. <i>Journal of Neuroscience Methods</i> , <b>2012</b> , 209, 178-88	3.8	15

49	Power-law distribution of phase-locking intervals does not imply critical interaction. <i>Physical Review E</i> , <b>2012</b> , 86, 051920	2.4	15
48	Fast eye movement initiation of ocular torsion in mesodiencephalic lesions. <i>Annals of Neurology</i> , <b>1998</b> , 43, 729-37	9.4	13
47	Comment on "Broadband Criticality of Human Brain Network Synchronization" by Kitzbichler MG, Smith ML, Christensen SR, Bullmore E (2009) PLoS Comput Biol 5: e1000314. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004174	5	12
46	Resting state MEG oscillations show long-range temporal correlations of phase synchrony that break down during finger movement. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 183	4.6	12
45	Mirror movements in neurology. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2005</b> , 76, 1330	5.5	12
44	How broad is the phenotype of Hallervorden-Spatz disease?. <i>Acta Neurologica Scandinavica</i> , <b>2001</b> , 103, 201-3	3.8	12
43	Risks associated with oral deferiprone in the treatment of infratentorial superficial siderosis. <i>Journal of Neurology</i> , <b>2020</b> , 267, 239-243	5.5	12
42	Recent Advances. Neurology. <i>BMJ: British Medical Journal</i> , <b>1999</b> , 319, 362-6		11
41	Pulsatile central nervous control of human movement. <i>Journal of Physiology</i> , <b>1999</b> , 517 ( Pt 1), 3	3.9	11
40	Using Computational Neuroscience to Define Common Input to Spinal Motor Neurons. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 313	3.3	11
39	Spastic movement disorder: should we forget hyperexcitable stretch reflexes and start talking about inappropriate prediction of sensory consequences of movement?. <i>Experimental Brain Research</i> , <b>2020</b> , 238, 1627-1636	2.3	10
38	Identification of Criticality in Neuronal Avalanches: II. A Theoretical and Empirical Investigation of the Driven Case. <i>Journal of Mathematical Neuroscience</i> , <b>2014</b> , 4, 9	2.4	10
37	HTLV-1 polymyositis. <i>Neuromuscular Disorders</i> , <b>1996</b> , 6, 151-4	2.9	10
36	Maturation of feedforward toe walking motor program is impaired in children with cerebral palsy. <i>Brain</i> , <b>2019</b> , 142, 526-541	11.2	9
35	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , <b>2020</b> , 218, 116796	7.9	9
34	Late recovery of awareness in prolonged disorders of consciousness -a cross-sectional cohort study. <i>Disability and Rehabilitation</i> , <b>2018</b> , 40, 2433-2438	2.4	9
33	Marked hemiatrophy in carriers of Duchenne muscular dystrophy. <i>Archives of Neurology</i> , <b>2010</b> , 67, 497-500		9
32	Sensitivity and Specificity of the ECAS in Parkinson's Disease and Progressive Supranuclear Palsy. <i>Parkinson's Disease</i> , <b>2018</b> , 2018, 2426012	2.6	9

31	Focal Paraneoplastic Syndrome associated with small cell carcinoma of the lung. <i>Journal of Neurology</i> , <b>2008</b> , 255, 123-4	5.5	6
30	State Dependent Beta Oscillations in the Cortico-Basal Ganglia Circuit and their Neuromodulation under Phase-Locked Inputs		5
29	Opicapone Efficacy and Tolerability in Parkinson's Disease Patients Reporting Insufficient Benefit/Failure of Entacapone. <i>Movement Disorders Clinical Practice</i> , <b>2020</b> , 7, 955-960	2.2	4
28	Gait training facilitates push-off and improves gait symmetry in children with cerebral palsy. <i>Human Movement Science</i> , <b>2020</b> , 69, 102565	2.4	4
27	Reply to McClelland et al.: EMG rectification and coherence analysis. <i>Journal of Neurophysiology</i> , <b>2014</b> , 111, 1151-2	3.2	4
26	Sequestered disc fragment mimicking a psoas abscess. <i>Spine Journal</i> , <b>2012</b> , 12, e1-4	4	4
25	Developmental profile of slow hand movement oscillation coupling in humans. <i>Journal of Neurophysiology</i> , <b>2011</b> , 105, 2204-12	3.2	4
24	"Non-neuroleptic malignant" syndrome. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>1998</b> , 65, 613	5.5	4
23	Feedforward neural control of toe walking in humans. <i>Journal of Physiology</i> , <b>2018</b> , 596, 2159-2172	3.9	3
22	Role of the nucleus intercalatus in upbeat nystagmus. <i>Annals of Neurology</i> , <b>1998</b> , 44, 840	9.4	3
21	Isolated familial hypomagnesaemia with novel neurological features: causal link or chance concurrence?. <i>European Journal of Neurology</i> , <b>2001</b> , 8, 495-9	6	3
20	Temporal ordering of input modulates connectivity formation in a developmental neuronal network model of the cortex. <i>PLoS ONE</i> , <b>2020</b> , 15, e0226772	3.7	3
19	A Rare Case of Bilateral Optic Neuritis and Guillain-Barré Syndrome Post Infection. <i>Neuro-Ophthalmology</i> , <b>2017</b> , 41, 41-47	0.9	2
18	Adaptive time-varying detrended fluctuations analysis: a new method for characterizing time-varying scaling parameters in physiological time series. <i>BMC Neuroscience</i> , <b>2011</b> , 12,	3.2	2
17	Sexual wellbeing in Parkinson's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2004</b> , 75, 1232	5.5	2
16	Alzheimer's disease neuropathological change three decades after iatrogenic amyloid- $\beta$ transmission. <i>Acta Neuropathologica</i> , <b>2021</b> , 142, 211-215	14.3	2
15	The Crossed Flexor Plantar Response in Patients with Klippel-Feil Syndrome. <i>Case Reports in Neurology</i> , <b>2017</b> , 9, 143-148	1	1
14	SENSORY NEURONOPATHY; A CASE REPORT AND A REVIEW OF THE ROLE OF GANGLION NERVE BIOPSY IN DIAGNOSIS. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2013</b> , 84, e2.127-e2	5.5	1

13	Spinal Cord Disorders 585-628		1
12	Model Based Inference of Large Scale Brain Networks with Approximate Bayesian Computation		1
11	Propagation of Beta/Gamma Rhythms in the Cortico-Basal Ganglia Circuits of the Parkinsonian Rat		1
10	Neuropsychological and neuroimaging characteristics of classical superficial siderosis. <i>Journal of Neurology</i> , <b>2021</b> , 268, 4238-4247	5.5	1
9	Inference of brain networks with approximate Bayesian computation - assessing face validity with an example application in Parkinsonism. <i>NeuroImage</i> , <b>2021</b> , 236, 118020	7.9	1
8	Iatrogenic cerebral amyloid angiopathy: an emerging clinical phenomenon.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2022</b> ,	5.5	1
7	Stimulating at the right time to recover network states in a model of the cortico-basal ganglia-thalamic circuit.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009887	5	0
6	Spinal Column and Spinal Cord Disorders <b>2016</b> , 647-684		
5	Clustered Arrangement of Inhibitory Neurons Can Lead to Oscillatory Dynamics in a Model of Activity-Dependent Structural Plasticity <b>2017</b> , 123-154		
4	Intractable headache after lumbar puncture. <i>BMJ, The</i> , <b>2011</b> , 343, d4529	5.9	
3	Temporal ordering of input modulates connectivity formation in a developmental neuronal network model of the cortex <b>2020</b> , 15, e0226772		
2	Temporal ordering of input modulates connectivity formation in a developmental neuronal network model of the cortex <b>2020</b> , 15, e0226772		
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