

Gerald K Cooray

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

941
citations

430874

18
h-index

501196

28
g-index

50
all docs

50
docs citations

50
times ranked

1319
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictors of cognitive impairment in type 1 diabetes. <i>Psychoneuroendocrinology</i> , 2007, 32, 1041-1051.	2.7	102
2	Towards a Neuronal Gauge Theory. <i>PLoS Biology</i> , 2016, 14, e1002400.	5.6	86
3	Effects of intensified metabolic control on CNS function in type 2 diabetes. <i>Psychoneuroendocrinology</i> , 2011, 36, 77-86.	2.7	53
4	The Cumulative Effects of Predictability on Synaptic Gain in the Auditory Processing Stream. <i>Journal of Neuroscience</i> , 2017, 37, 6751-6760.	3.6	52
5	Reference values for jitter recorded by concentric needle electrodes in healthy controls: A multicenter study. <i>Muscle and Nerve</i> , 2016, 53, 351-362.	2.2	48
6	The Electromagnetic Fields of an Accelerating Charge: Applications in Lightning Return-Stroke Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010, 52, 944-955.	2.2	41
7	Dynamic causal modelling of electrographic seizure activity using Bayesian belief updating. <i>NeuroImage</i> , 2016, 125, 1142-1154.	4.2	41
8	Characterising seizures in anti-NMDA-receptor encephalitis with dynamic causal modelling. <i>NeuroImage</i> , 2015, 118, 508-519.	4.2	39
9	NMDA-receptor antibodies alter cortical microcircuit dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9916-E9925.	7.1	39
10	Early Electrophysiological Abnormalities and Clinical Neuropathy. <i>Diabetes Care</i> , 2013, 36, 3187-3194.	8.6	38
11	Hemispheric brain asymmetry differences in youths with attention-deficit/hyperactivity disorder. <i>NeuroImage: Clinical</i> , 2018, 18, 744-752.	2.7	35
12	Electromagnetic radiation field of an electron avalanche. <i>Atmospheric Research</i> , 2012, 117, 18-27.	4.1	30
13	Dynamic causal modelling of seizure activity in a rat model. <i>NeuroImage</i> , 2017, 146, 518-532.	4.2	27
14	Viral triggering of anti-NMDA receptor encephalitis in a child – An important cause for disease relapse. <i>European Journal of Paediatric Neurology</i> , 2014, 18, 543-546.	1.6	26
15	Decreased cortical connectivity and information flow in type 1 diabetes. <i>Clinical Neurophysiology</i> , 2011, 122, 1943-1950.	1.5	25
16	A mechanistic model of mismatch negativity in the ageing brain. <i>Clinical Neurophysiology</i> , 2014, 125, 1774-1782.	1.5	25
17	The maturation of mismatch negativity networks in normal adolescence. <i>Clinical Neurophysiology</i> , 2016, 127, 520-529.	1.5	22
18	Cognitive impairment correlates to low auditory event-related potential amplitudes in type 1 diabetes. <i>Psychoneuroendocrinology</i> , 2008, 33, 942-950.	2.7	19

#	ARTICLE	IF	CITATIONS
19	Electromagnetic fields of a relativistic electron avalanche with special attention to the origin of lightning signatures known as narrow bipolar pulses. <i>Atmospheric Research</i> , 2014, 149, 346-358.	4.1	18
20	Mechanism of visual network dysfunction in relapsing-remitting multiple sclerosis and its relation to cognition. <i>Clinical Neurophysiology</i> , 2020, 131, 361-367.	1.5	16
21	Post-stroke epilepsy in an ischemic stroke cohort—Incidence and diagnosis. <i>Acta Neurologica Scandinavica</i> , 2020, 141, 141-147.	2.1	15
22	Modeling Compact Intracloud Discharge (CID) as a Streamer Burst. <i>Atmosphere</i> , 2020, 11, 549.	2.3	13
23	Neurogenic vs. Myogenic Origin of Acquired Muscle Paralysis in Intensive Care Unit (ICU) Patients: Evaluation of Different Diagnostic Methods. <i>Diagnostics</i> , 2020, 10, 966.	2.6	12
24	Detection of interictal epileptiform discharges: A comparison of on-scalp MEG and conventional MEG measurements. <i>Clinical Neurophysiology</i> , 2020, 131, 1711-1720.	1.5	11
25	Could Some Ball Lightning Observations be Optical Hallucinations Caused by Epileptic Seizures?. <i>The Open Atmospheric Science Journal</i> , 2008, 2, 101-105.	0.5	11
26	On the Remarkable Features of the Lower Limits of Charge and the Radiated Energy of Antennas as Predicted by Classical Electrodynamics. <i>Atmosphere</i> , 2016, 7, 64.	2.3	9
27	On the possibility of phosphenes being generated by the energetic radiation from lightning flashes and thunderstorms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3704-3709.	2.1	8
28	On the possible mechanism of keraunographic markings on lightning victims. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 136, 119-123.	1.6	8
29	Prospective Evaluation of Childhood Encephalitis. <i>Pediatric Infectious Disease Journal</i> , 2020, 39, e417-e422.	2.0	8
30	Generalized Electric Field Equations of a Time-Varying Current Distribution Based on the Electromagnetic Fields of Moving and Accelerating Charges. <i>Atmosphere</i> , 2019, 10, 367.	2.3	7
31	Interictal epileptiform discharges in focal epilepsy are preceded by increase in low-frequency oscillations. <i>Clinical Neurophysiology</i> , 2022, 136, 191-205.	1.5	7
32	On the Momentum Transported by the Radiation Field of a Long Transient Dipole and Time Energy Uncertainty Principle. <i>Atmosphere</i> , 2016, 7, 151.	2.3	6
33	On the Action of the Radiation Field Generated by a Traveling-Wave Element and Its Connection to the Time Energy Uncertainty Principle, Elementary Charge and the Fine Structure Constant. <i>Atmosphere</i> , 2017, 8, 46.	2.3	6
34	Electromagnetic fields of accelerating charges: Applications in lightning protection. <i>Electric Power Systems Research</i> , 2017, 145, 234-247.	3.6	5
35	Neurophysiological effects of continuous cortical stimulation in epilepsy — Spike and spontaneous ECoG activity. <i>Clinical Neurophysiology</i> , 2019, 130, 38-45.	1.5	5
36	The Deep Physics Hidden within the Field Expressions of the Radiation Fields of Lightning Return Strokes. <i>Atmosphere</i> , 2016, 7, 21.	2.3	4

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37	Integrating navigated transcranial magnetic stimulation motor mapping in hypofractionated and single-dose gamma knife radiosurgery: A two-patient case series and a review of literature. , 2020, 11, 29.		4
38	Stereotactic Brain Biopsy in Eloquent Areas Assisted by Navigated Transcranial Magnetic Stimulation: a Technical Case Report. Operative Neurosurgery, 2019, 17, E124-E129.	0.8	3
39	Noise induced quiescence of epileptic spike generation in patients with epilepsy. Journal of Computational Neuroscience, 2021, 49, 57-67.	1.0	3
40	Postâ€encephalitic epilepsy in childhood: results from a prospective cohort study. Epileptic Disorders, 2021, 23, 133-142.	1.3	3
41	MEG and navigated TMS jointly enable spatially accurate application of TMS therapy at the epileptic focus in pharmaco-resistant epilepsy. Brain Stimulation, 2019, 12, 1312-1314.	1.6	2
42	On the physiology of cognitive decline in type 1 diabetes. Neurophysiologie Clinique, 2021, 51, 259-265.	2.2	2
43	Corona currents generated from a person's head in the vicinity of lightning strikes — Stimulation of phosphenes. , 2011, , .		1
44	Electric field of a relativistic electron avalanche. , 2012, , .		1
45	On the streamer discharges emitted from the head of a person located in the vicinity of lightning strikes and their possible consequences. Journal of Electrostatics, 2013, 71, 572-576.	1.9	1
46	Salvage gamma knife radiosurgery in the management of dysembryoplastic neuroepithelial tumors: Long-term outcome in a single-institution case series. , 2017, 8, 174.		1
47	Dynamic Causal Modelling of Dynamic Dysfunction in NMDA-Receptor Antibody Encephalitis. Springer Series in Bio-/neuroinformatics, 2017, , 121-148.	0.1	1
48	On the electric and magnetic fields below a single conductor overhead power line. , 2012, , .		0