

Marcelo A Montemurro

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,161
citations

236833

25
h-index

175177

52
g-index

60
all docs

60
docs citations

60
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Spike-Phase Coding Boosts and Stabilizes Information Carried by Spatial and Temporal Spike Patterns. <i>Neuron</i> , 2009, 61, 597-608.	3.8	427
2	Low-Frequency Local Field Potentials and Spikes in Primary Visual Cortex Convey Independent Visual Information. <i>Journal of Neuroscience</i> , 2008, 28, 5696-5709.	1.7	381
3	Correcting for the Sampling Bias Problem in Spike Train Information Measures. <i>Journal of Neurophysiology</i> , 2007, 98, 1064-1072.	0.9	368
4	Phase-of-Firing Coding of Natural Visual Stimuli in Primary Visual Cortex. <i>Current Biology</i> , 2008, 18, 375-380.	1.8	361
5	Beyond the Zipf-Mandelbrot law in quantitative linguistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 300, 567-578.	1.2	199
6	Melanopsin-Driven Light Adaptation in Mouse Vision. <i>Current Biology</i> , 2014, 24, 2481-2490.	1.8	121
7	Information-theoretic sensitivity analysis: a general method for credit assignment in complex networks. <i>Journal of the Royal Society Interface</i> , 2008, 5, 223-235.	1.5	101
8	LONG-RANGE FRACTAL CORRELATIONS IN LITERARY CORPORA. <i>Fractals</i> , 2002, 10, 451-461.	1.8	87
9	Diverse and Temporally Precise Kinetic Feature Selectivity in the VPm Thalamic Nucleus. <i>Neuron</i> , 2008, 60, 890-903.	3.8	87
10	Tight Data-Robust Bounds to Mutual Information Combining Shuffling and Model Selection Techniques. <i>Neural Computation</i> , 2007, 19, 2913-2957.	1.3	82
11	Dynamics of Text Generation with Realistic Zipf's Distribution. <i>Journal of Quantitative Linguistics</i> , 2005, 12, 29-40.	0.7	78
12	Role of Precise Spike Timing in Coding of Dynamic Vibrissa Stimuli in Somatosensory Thalamus. <i>Journal of Neurophysiology</i> , 2007, 98, 1871-1882.	0.9	76
13	Modulation of Fast Narrowband Oscillations in the Mouse Retina and dLGN According to Background Light Intensity. <i>Neuron</i> , 2017, 93, 299-307.	3.8	73
14	Universal Entropy of Word Ordering Across Linguistic Families. <i>PLoS ONE</i> , 2011, 6, e19875.	1.1	56
15	Melanopsin-driven increases in maintained activity enhance thalamic visual response reliability across a simulated dawn. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5734-43.	3.3	48
16	Natural Language Statistical Features of LSTM-Generated Texts. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 3326-3337.	7.2	48
17	Aging in an infinite-range Hamiltonian system of coupled rotators. <i>Physical Review E</i> , 2003, 67, 031106.	0.8	44
18	Keywords and Co-Occurrence Patterns in the Voynich Manuscript: An Information-Theoretic Analysis. <i>PLoS ONE</i> , 2013, 8, e66344.	1.1	42

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19	Cortical Resonance Frequencies Emerge from Network Size and Connectivity. <i>PLoS Computational Biology</i> , 2016, 12, e1004740.	1.5	39
20	TOWARDS THE QUANTIFICATION OF THE SEMANTIC INFORMATION ENCODED IN WRITTEN LANGUAGE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010, 13, 135-153.	0.9	36
21	Long range dispersal and spatial pattern formation in biological invasions. <i>Mathematical Biosciences</i> , 2006, 203, 155-170.	0.9	33
22	Comparing short and long-distance dispersal: modelling and field case studies. <i>Ecography</i> , 2011, 34, 671-682.	2.1	32
23	ENTROPIC ANALYSIS OF THE ROLE OF WORDS IN LITERARY TEXTS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2002, 05, 7-17.	0.9	30
24	Dynamics and nonequilibrium states in the Hamiltonian mean-field model: A closer look. <i>Physical Review E</i> , 2003, 67, 031105.	0.8	28
25	Slow dynamics in a two-dimensional Ising model with competing interactions. <i>Physical Review B</i> , 2003, 68, .	1.1	26
26	Pattern Separation Underpins Expectation-Modulated Memory. <i>Journal of Neuroscience</i> , 2020, 40, 3455-3464.	1.7	25
27	Conversion of Phase Information into a Spike-Count Code by Bursting Neurons. <i>PLoS ONE</i> , 2010, 5, e9669.	1.1	24
28	Thalamic neuron models encode stimulus information by burst-size modulation. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 113.	1.2	22
29	Optimal Tuning Widths in Population Coding of Periodic Variables. <i>Neural Computation</i> , 2006, 18, 1555-1576.	1.3	21
30	Comparable ecological dynamics underlie early cancer invasion and species dispersal, involving self-organizing processes. <i>Journal of Theoretical Biology</i> , 2009, 256, 65-75.	0.8	20
31	A note on non-thermodynamical applications of non-extensive statistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 324, 383-387.	0.9	18
32	Evidence for frequency-dependent cortical plasticity in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8871-8876.	3.3	17
33	Quantifying the information in the long-range order of words: Semantic structures and universal linguistic constraints. <i>Cortex</i> , 2014, 55, 5-16.	1.1	14
34	Thermal measurements of stationary nonequilibrium systems: a test for generalized thermostatistics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 184-189.	0.9	13
35	Bursting Neurons in the Hippocampal Formation Encode Features of LFP Rhythms. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 133.	1.2	13
36	Linking dynamical and functional properties of intrinsically bursting neurons. <i>Journal of Computational Neuroscience</i> , 2013, 35, 213-230.	0.6	11

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37	FPGA Hardware Acceleration of Monte Carlo Simulations for the Ising Model. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2618-2627.	4.0	11
38	Information coding in a laminar computational model of cat primary visual cortex. Journal of Computational Neuroscience, 2013, 34, 273-283.	0.6	8
39	Phase-locking of bursting neuronal firing to dominant LFP frequency components. BioSystems, 2015, 136, 73-79.	0.9	7
40	GABA Modulates Frequency-Dependent Plasticity in Humans. IScience, 2020, 23, 101657.	1.9	7
41	An efficient dilution strategy for constructing sparsely connected neural networks. Physica A: Statistical Mechanics and Its Applications, 2001, 294, 340-350.	1.2	5
42	Out-of-equilibrium dynamics of the Hopfield model in its spin-glass phase. Physical Review E, 2000, 62, 5721-5728.	0.8	4
43	Aging and coarsening in an ultra-thin film model. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 529-534.	1.2	3
44	The statistics of meaning: Darwin, Gibbon and Moby Dick. Significance, 2009, 6, 165-169.	0.3	3
45	Coherent oscillations in word-use data from 1700 to 2008. Palgrave Communications, 2016, 2, .	4.7	3
46	AGING IN A ONE-DIMENSIONAL EDWARDS&AQUOANDERSON SPIN GLASS MODEL WITH LONG-RANGE INTERACTIONS. International Journal of Modern Physics C, 2003, 14, 257-265.	0.8	2
47	Phase-of-firing coding of dynamical whisker stimuli and the thalamocortical code in barrel cortex. BMC Neuroscience, 2013, 14, .	0.8	2
48	Homologous self-organising scale-invariant properties characterise long range species spread and cancer invasion. Nature Precedings, 2007, , .	0.1	1
49	A downward biased estimator of spike timing information. Neurocomputing, 2007, 70, 1777-1781.	3.5	1
50	Bursting neurons in the hippocampal formation convey information about LFP features. BMC Neuroscience, 2014, 15, .	0.8	1
51	Towards a Deeper Understanding of the Complex Behaviour Observed in the Distribution of Words in Written Texts. Springer Proceedings in Complexity, 2013, , 241-249.	0.2	1
52	Complexity and Universality in the Long-Range Order of Words. Lecture Notes in Morphogenesis, 2016, , 27-41.	0.2	1
53	Aging in the retrieval phase of the Hopfield model. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 108-113.	1.2	0
54	Stimulus specificity of cortico-cortical connections optimizes information transmission. Neurocomputing, 2006, 69, 1203-1205.	3.5	0

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55	Homologous self-organising scale-invariant properties characterise long range species spread and cancer invasion. Nature Precedings, 2007, , .	0.1	0
56	Bursting neurons encode the time-dependent phase of the input signals. BMC Neuroscience, 2009, 10, .	0.8	0
57	Quantifying the visual information sourced from melanopsin photoreceptors in mouse LGN field responses. BMC Neuroscience, 2011, 12, .	0.8	0
58	Does the information in the phase of low frequency LFP reflect the low frequency envelope of local spike rates?. BMC Neuroscience, 2011, 12, .	0.8	0
59	Phase-of-firing information coding in laminar cortical architecture. BMC Neuroscience, 2011, 12, .	0.8	0
60	Information transfer by local field potentials in the hippocampal formation. BMC Neuroscience, 2015, 16, .	0.8	0