Emilio Salinas

List of Publications by Year
in descending order

77 papers	7,148 citations	136740 32 h-index	106150 65 g-index
96 all docs	96 docs citations	96 times ranked	5637 citing authors

#	Article	IF	Citations
1	Correlated neuronal activity and the flow of neural information. Nature Reviews Neuroscience, 2001, 2, 539-550.	4.9	1,134
2	Flutter Discrimination: neural codes, perception, memory and decision making. Nature Reviews Neuroscience, 2003, 4, 203-218.	4.9	535
3	Somatosensory discrimination based on cortical microstimulation. Nature, 1998, 392, 387-390.	13.7	443
4	Perceptual decision making in less than 30 milliseconds. Nature Neuroscience, 2010, 13, 379-385.	7.1	440
5	Vector reconstruction from firing rates. Journal of Computational Neuroscience, 1994, 1, 89-107.	0.6	434
6	Impact of Correlated Synaptic Input on Output Firing Rate and Variability in Simple Neuronal Models. Journal of Neuroscience, 2000, 20, 6193-6209.	1.7	400
7	A model of multiplicative neural responses in parietal cortex.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11956-11961.	3.3	298
8	Periodicity and Firing Rate As Candidate Neural Codes for the Frequency of Vibrotactile Stimuli. Journal of Neuroscience, 2000, 20, 5503-5515.	1.7	287
9	Transfer of coded information from sensory to motor networks. Journal of Neuroscience, 1995, 15, 6461-6474.	1.7	240
10	Touch and Go: Decision-Making Mechanisms in Somatosensation. Annual Review of Neuroscience, 2001, 24, 107-137.	5.0	223
11	Correlated Neuronal Discharges that Increase Coding Efficiency during Perceptual Discrimination. Neuron, 2003, 38, 649-657.	3.8	193
12	Inhibitory synchrony as a mechanism for attentional gain modulation. Journal of Physiology (Paris), 2004, 98, 296-314.	2.1	128
13	Invariant Visual Responses From Attentional Gain Fields. Journal of Neurophysiology, 1997, 77, 3267-3272.	0.9	123
14	Discrimination in the Sense of Flutter: New Psychophysical Measurements in Monkeys. Journal of Neuroscience, 1997, 17, 6391-6400.	1.7	107
15	The Countermanding Task Revisited: Fast Stimulus Detection Is a Key Determinant of Psychophysical Performance. Journal of Neuroscience, 2013, 33, 5668-5685.	1.7	95
16	Conversion of Sensory Signals into Motor Commands in Primary Motor Cortex. Journal of Neuroscience, 1998, 18, 499-511.	1.7	88
17	Chapter 11 Coordinate transformations in the visual system: how to generate gain fields and what to compute with them. Progress in Brain Research, 2001, 130, 175-190.	0.9	77
18	Integrate-and-Fire Neurons Driven by Correlated Stochastic Input. Neural Computation, 2002, 14, 2111-2155.	1.3	76

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19	Fast Remapping of Sensory Stimuli onto Motor Actions on the Basis of Contextual Modulation. Journal of Neuroscience, 2004, 24, 1113-1118.	1.7	69
20	Background Synaptic Activity as a Switch Between Dynamical States in a Network. Neural Computation, 2003, 15, 1439-1475.	1.3	64
21	How Behavioral Constraints May Determine Optimal Sensory Representations. PLoS Biology, 2006, 4, e387.	2.6	63
22	Functional Properties of Primate Putamen Neurons During the Categorization of Tactile Stimuli. Journal of Neurophysiology, 1997, 77, 1132-1154.	0.9	62
23	Perceptual Modulation of Motorâ€"But Not Visualâ€"Responses in the Frontal Eye Field during an Urgent-Decision Task. Journal of Neuroscience, 2013, 33, 16394-16408.	1.7	58
24	Exploring the cortical evidence of a sensoryâ€"discrimination process. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1039-1051.	1.8	51
25	Tracking the Temporal Evolution of a Perceptual Judgment Using a Compelled-Response Task. Journal of Neuroscience, 2011, 31, 8406-8421.	1.7	48
26	Sensing and deciding in the somatosensory system. Current Opinion in Neurobiology, 1999, 9, 487-493.	2.0	47
27	Role of primary somatic sensory cortex in the categorization of tactile stimuli: effects of lesions. Experimental Brain Research, 1997, 115, 357-360.	0.7	46
28	Synchronization as a mechanism for attentional gain modulation. Neurocomputing, 2004, 58-60, 641-646.	3.5	46
29	When Response Variability Increases Neural Network Robustness to Synaptic Noise. Neural Computation, 2006, 18, 1349-1379.	1.3	45
30	Emergence of an abstract categorical code enabling the discrimination of temporally structured tactile stimuli. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7966-E7975.	3.3	45
31	Saccade metrics reflect decision-making dynamics during urgent choices. Nature Communications, 2018, 9, 2907.	5.8	45
32	Decoupling speed and accuracy in an urgent decision-making task reveals multiple contributions to their trade-off. Frontiers in Neuroscience, 2014, 8, 85.	1.4	43
33	From sensation to action. Behavioural Brain Research, 2002, 135, 105-118.	1.2	36
34	Transformation of the neural code for tactile detection from thalamus to cortex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2635-44.	3.3	35
35	Neural correlates of working memory development in adolescent primates. Nature Communications, 2016, 7, 13423.	5.8	35
36	Age-dependent changes in prefrontal intrinsic connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3853-3858.	3.3	32

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37	Context-dependent selection of visuomotor maps. BMC Neuroscience, 2004, 5, 47.	0.8	30
38	Neural coding and perceptual detection in the primate somatosensory thalamus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15006-15011.	3.3	30
39	Differences in Intrinsic Functional Organization Between Dorsolateral Prefrontal and Posterior Parietal Cortex. Cerebral Cortex, 2014, 24, 2334-2349.	1.6	30
40	Working memory performance and neural activity in prefrontal cortex of peripubertal monkeys. Journal of Neurophysiology, 2013, 110, 2648-2660.	0.9	29
41	Motor selection dynamics in FEF explain the reaction time variance of saccades to single targets. ELife, 2018, 7, .	2.8	27
42	Saccadic inhibition interrupts ongoing oculomotor activity to enable the rapid deployment of alternate movement plans. Scientific Reports, 2018, 8, 14163.	1.6	26
43	Do Simple Cells in Primary Visual Cortex Form a Tight Frame?. Neural Computation, 2000, 12, 313-335.	1.3	21
44	Waiting is the Hardest Part: Comparison of Two Computational Strategies for Performing a Compelled-Response Task. Frontiers in Computational Neuroscience, 2010, 4, 153.	1.2	20
45	Behavioral response inhibition and maturation of goal representation in prefrontal cortex after puberty. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3353-3358.	3.3	19
46	Voluntary and involuntary contributions to perceptually guided saccadic choices resolved with millisecond precision. ELife, 2019, 8, .	2.8	17
47	Rank-Order-Selective Neurons Form a Temporal Basis Set for the Generation of Motor Sequences. Journal of Neuroscience, 2009, 29, 4369-4380.	1.7	15
48	A chorus line. Nature, 2000, 404, 131-133.	13.7	12
49	So Many Choices: What Computational Models Reveal about Decision-Making Mechanisms. Neuron, 2008, 60, 946-949.	3.8	10
50	Task dependence of decision- and choice-related activity in monkey oculomotor thalamus. Journal of Neurophysiology, 2016, 115, 581-601.	0.9	9
51	All-or-None Context Dependence Delineates Limits of FEF Visual Target Selection. Current Biology, 2019, 29, 294-305.e3.	1.8	9
52	Perceptual Decision Making. , 2014, , 1-21.		8
53	Urgent Decision Making: Resolving Visuomotor Interactions at High Temporal Resolution. Annual Review of Vision Science, 2021, 7, 323-348.	2.3	8
54	Under time pressure, the exogenous modulation of saccade plans is ubiquitous, intricate, and lawful. Current Opinion in Neurobiology, 2021, 70, 154-162.	2.0	8

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55	Noisy neurons can certainly compute. Nature Neuroscience, 2006, 9, 1349-1350.	7.1	7
56	Gain Modulation as a Mechanism for Switching Reference Frames, Tasks, and Targets. , 2009, , 121-142.		6
57	Self-sustained activity in networks of gain-modulated neurons. Neurocomputing, 2003, 52-54, 913-918.	3.5	5
58	Prior and prejudice. Nature Neuroscience, 2011, 14, 943-945.	7.1	4
59	Attentional Gain Modulation as a Basis for Translation Invariance. , 1997, , 807-812.		4
60	A simple measure of the coding efficiency of a neuronal population. BioSystems, 2007, 89, 16-23.	0.9	2
61	Neuronal communication: a detailed balancing act. Nature Neuroscience, 2009, 12, 372-374.	7.1	2
62	Bistability in oscillatory cortical modules. Neurocomputing, 2004, 58-60, 769-774.	3.5	1
63	A model of target selection based on goal-dependent modulation. Neurocomputing, 2005, 65-66, 161-166.	3.5	1
64	A general, flexible decision model, applied to visual search. BMC Neuroscience, 2007, 8, .	0.8	1
65	Perceptual Decision-Making. , 2015, , 2243-2261.		1
66	When the simplest voluntary decisions appear patently suboptimal. Behavioral and Brain Sciences, 2018, 41, e240.	0.4	1
67	Molecules to Remember. Cell, 2007, 129, 245-247.	13.5	0
68	Clocking perceptual processing speed. Communicative and Integrative Biology, 2010, 3, 287-289.	0.6	0
69	Urgent Commitment Issues. Neuron, 2017, 95, 991-993.	3.8	0
70	Working Memory and Prefrontal Neural Activity of Macaques in Early Adolescence. Journal of Vision, 2021, 21, 2913.	0.1	0
71	Correlated Neuronal Activity. Chapman & Hall/CRC Mathematical and Computational Biology Series, 2003, , .	0.1	0
72	Decision Making: Overview. , 2014, , 1-3.		0

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73	Decoding Vectorial Information from Firing Rates. , 1995, , 299-304.		0
74	Decision-Making: Overview. , 2015, , 34-36.		0
75	Decision-Making: Overview. , 2019, , 1-3.		0
76	Perceptual Decision-Making. , 2022, , 2635-2653.		0
77	Decision-Making: Overview. , 2022, , 35-37.		0