

Sandro Romani

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,241
citations

361045

20
h-index

377514

34
g-index

44
all docs

44
docs citations

44
times ranked

2184
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Algorithms and Circuits for Motor Planning. Annual Review of Neuroscience, 2022, 45, 249-271.	5.0	28
2	Mapping Low-Dimensional Dynamics to High-Dimensional Neural Activity: A Derivation of the Ring Model From the Neural Engineering Framework. Neural Computation, 2021, 33, 827-852.	1.3	2
3	Attractor dynamics gate cortical information flow during decision-making. Nature Neuroscience, 2021, 24, 843-850.	7.1	83
4	Non-preferred contrast responses in the Drosophila motion pathways reveal a receptive field structure that explains a common visual illusion. Current Biology, 2021, 31, 5286-5298.e7.	1.8	6
5	Bidirectional synaptic plasticity rapidly modifies hippocampal representations. ELife, 2021, 10, .	2.8	66
6	Fundamental Law of Memory Recall. Physical Review Letters, 2020, 124, 018101.	2.9	22
7	The Statistical Structure of the Hippocampal Code for Space as a Function of Time, Context, and Value. Cell, 2020, 183, 620-635.e22.	13.5	84
8	Discrete attractor dynamics underlies persistent activity in the frontal cortex. Nature, 2019, 566, 212-217.	13.7	235
9	Generation of stable heading representations in diverse visual scenes. Nature, 2019, 576, 126-131.	13.7	127
10	The computation of directional selectivity in the Drosophila OFF motion pathway. ELife, 2019, 8, .	2.8	30
11	Simple integration of fast excitation and offset, delayed inhibition computes directional selectivity in Drosophila. Nature Neuroscience, 2018, 21, 250-257.	7.1	69
12	Low-Dimensional and Monotonic Preparatory Activity in Mouse Anterior Lateral Motor Cortex. Journal of Neuroscience, 2018, 38, 4163-4185.	1.7	83
13	A novel pyramidal cell type promotes sharp-wave synchronization in the hippocampus. Nature Neuroscience, 2018, 21, 985-995.	7.1	65
14	Inhibitory suppression of heterogeneously tuned excitation enhances spatial coding in CA1 place cells. Nature Neuroscience, 2017, 20, 417-426.	7.1	129
15	Memory Retrieval from First Principles. Neuron, 2017, 94, 1027-1032.	3.8	27
16	Theta-paced flickering between place cell maps in the hippocampus: A model based on short-term synaptic plasticity. Hippocampus, 2017, 27, 959-970.	0.9	17
17	Behavioral time scale synaptic plasticity underlies CA1 place fields. Science, 2017, 357, 1033-1036.	6.0	446
18	Hippocampal global remapping for different sensory modalities in flying bats. Nature Neuroscience, 2016, 19, 952-958.	7.1	65

#	ARTICLE	IF	CITATIONS
19	Practice makes perfect in memory recall. <i>Learning and Memory</i> , 2016, 23, 169-173.	0.5	11
20	Neural Network Model of Memory Retrieval. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 149.	1.2	33
21	Effects of long-term representations on free recall of unrelated words. <i>Learning and Memory</i> , 2015, 22, 101-108.	0.5	14
22	Theta sequences are essential for internally generated hippocampal firing fields. <i>Nature Neuroscience</i> , 2015, 18, 282-288.	7.1	226
23	Short-term plasticity based network model of place cells dynamics. <i>Hippocampus</i> , 2015, 25, 94-105.	0.9	69
24	Word length effect in free recall of randomly assembled word lists. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 129.	1.2	14
25	Continuous Attractor Network Model for Conjunctive Position-by-Velocity Tuning of Grid Cells. <i>PLoS Computational Biology</i> , 2014, 10, e1003558.	1.5	23
26	Scaling Laws of Associative Memory Retrieval. <i>Neural Computation</i> , 2013, 25, 2523-2544.	1.3	44
27	Intracellular Dynamics of Virtual Place Cells. <i>Neural Computation</i> , 2011, 23, 651-655.	1.3	4
28	Continuous Attractors with Morphed/Correlated Maps. <i>PLoS Computational Biology</i> , 2010, 6, e1000869.	1.5	35
29	Memory mechanisms for familiarity recognition and identification. <i>Journal of Vision</i> , 2010, 8, 693-693.	0.1	0
30	Universal Memory Mechanism for Familiarity Recognition and Identification. <i>Journal of Neuroscience</i> , 2008, 28, 239-248.	1.7	18
31	Optimizing One-Shot Learning with Binary Synapses. <i>Neural Computation</i> , 2008, 20, 1928-1950.	1.3	56
32	Search for fMRI BOLD signals in networks of spiking neurons. <i>European Journal of Neuroscience</i> , 2007, 25, 1882-1892.	1.2	5
33	Mean-field analysis of selective persistent activity in presence of short-term synaptic depression. <i>Journal of Computational Neuroscience</i> , 2006, 20, 201-217.	0.6	34
34	Learning in realistic networks of spiking neurons and spike-driven plastic synapses. <i>European Journal of Neuroscience</i> , 2005, 21, 3143-3160.	1.2	39