Ila R Fiete

List of Publications by Year
in descending order

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37 papers	3,412 citations	279798 23 h-index	414414 32 g-index
54 all docs	54 docs citations	54 times ranked	2583 citing authors

#	Article	IF	Citations
1	Cortical ensembles orchestrate social competition through hypothalamic outputs. Nature, 2022, 603, 667-671.	27.8	64
2	Place-cell capacity and volatility with grid-like inputs. ELife, 2021, 10, .	6.0	8
3	Editorial overview: Theoretical and computational approaches to decipher brain function from molecules to behavior. Current Opinion in Neurobiology, 2021, 70, iii-vii.	4.2	0
4	Ila Fiete. Current Biology, 2021, 31, R1552-R1555.	3.9	0
5	Robust parallel decision-making in neural circuits with nonlinear inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25505-25516.	7.1	7
6	Efficient Inference in Structured Spaces. Cell, 2020, 183, 1147-1148.	28.9	0
7	The Mind of a Mouse. Cell, 2020, 182, 1372-1376.	28.9	127
8	Systematic errors in connectivity inferred from activity in strongly recurrent networks. Nature Neuroscience, 2020, 23, 1286-1296.	14.8	50
9	Sources of path integration error in young and aging humans. Nature Communications, 2020, 11, 2626.	12.8	35
10	Efficient and flexible representation of higher-dimensional cognitive variables with grid cells. PLoS Computational Biology, 2020, 16, e1007796.	3.2	22
11	The intrinsic attractor manifold and population dynamics of a canonical cognitive circuit across waking and sleep. Nature Neuroscience, 2019, 22, 1512-1520.	14.8	214
12	Grid cell co-activity patterns during sleep reflect spatial overlap of grid fields during active behaviors. Nature Neuroscience, 2019, 22, 609-617.	14.8	67
13	A Map-like Micro-Organization of Grid Cells in the Medial Entorhinal Cortex. Cell, 2018, 175, 736-750.e30.	28.9	84
14	Inferring circuit mechanisms from sparse neural recording and global perturbation in grid cells. ELife, 2018, 7, .	6.0	11
15	Making our way through the world: Towards a functional understanding of the brain's spatial circuits. Current Opinion in Systems Biology, 2017, 3, 186-194.	2.6	8
16	An International Laboratory for Systems and Computational Neuroscience. Neuron, 2017, 96, 1213-1218.	8.1	60
17	Fundamental bound on the persistence and capacity of short-term memory stored as graded persistent activity. ELife, 2017, 6, .	6.0	26
18	Multi-periodic neural coding for adaptive information transfer. Theoretical Computer Science, 2016, 633, 37-53.	0.9	3

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19	Grid Cell Responses in 1D Environments Assessed as Slices through a 2D Lattice. Neuron, 2016, 89, 1086-1099.	8.1	60
20	Computational principles of memory. Nature Neuroscience, 2016, 19, 394-403.	14.8	176
21	Bias in Human Path Integration Is Predicted by Properties of Grid Cells. Current Biology, 2015, 25, 1771-1776.	3.9	42
22	How Does the Brain Solve the Computational Problems of Spatial Navigation?. , 2014, , 373-407.		2
23	A Model of Grid Cell Development through Spatial Exploration and Spike Time-Dependent Plasticity. Neuron, 2014, 83, 481-495.	8.1	81
24	Specific evidence of low-dimensional continuous attractor dynamics in grid cells. Nature Neuroscience, 2013, 16, 1077-1084.	14.8	248
25	Dynamic shift-map coding with side information at the decoder. , 2012, , .		1
26	Fundamental limits on persistent activity in networks of noisy neurons. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17645-17650.	7.1	102
27	Grid cells generate an analog error-correcting code for singularly precise neural computation. Nature Neuroscience, 2011, 14, 1330-1337.	14.8	165
28	Spike-Time-Dependent Plasticity and Heterosynaptic Competition Organize Networks to Produce Long Scale-Free Sequences of Neural Activity. Neuron, 2010, 65, 563-576.	8.1	253
29	Losing Phase. Neuron, 2010, 66, 331-334.	8.1	5
30	Accurate Path Integration in Continuous Attractor Network Models of Grid Cells. PLoS Computational Biology, 2009, 5, e1000291.	3.2	569
31	Grid cells: The position code, neural network models of activity, and the problem of learning. Hippocampus, 2008, 18, 1283-1300.	1.9	80
32	Testing Odor Response Stereotypy in the Drosophila Mushroom Body. Neuron, 2008, 59, 1009-1023.	8.1	157
33	What Grid Cells Convey about Rat Location. Journal of Neuroscience, 2008, 28, 6858-6871.	3.6	274
34	Model of Birdsong Learning Based on Gradient Estimation by Dynamic Perturbation of Neural Conductances. Journal of Neurophysiology, 2007, 98, 2038-2057.	1.8	151
35	Gradient Learning in Spiking Neural Networks by Dynamic Perturbation of Conductances. Physical Review Letters, 2006, 97, 048104.	7.8	89
36	Do We Understand the Emergent Dynamics of Grid Cell Activity?. Journal of Neuroscience, 2006, 26, 9352-9354.	3.6	46

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37	Temporal Sparseness of the Premotor Drive Is Important for Rapid Learning in a Neural Network Model of Birdsong. Journal of Neurophysiology, 2004, 92, 2274-2282.	1.8	71