

# Arianna Maffei

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,610  
citations

257450

24  
h-index

254184

43  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4145  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced cortical activity due to a shift in the balance between excitation and inhibition in a mouse model of Rett Syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12560-12565.	7.1	558
2	Selective reconfiguration of layer 4 visual cortical circuitry by visual deprivation. <i>Nature Neuroscience</i> , 2004, 7, 1353-1359.	14.8	358
3	Potential of cortical inhibition by visual deprivation. <i>Nature</i> , 2006, 443, 81-84.	27.8	344
4	Theta-Frequency Bursting and Resonance in Cerebellar Granule Cells: Experimental Evidence and Modeling of a Slow K <sup>+</sup> -Dependent Mechanism. <i>Journal of Neuroscience</i> , 2001, 21, 759-770.	3.6	268
5	Multiple Modes of Network Homeostasis in Visual Cortical Layer 2/3. <i>Journal of Neuroscience</i> , 2008, 28, 4377-4384.	3.6	254
6	Genetic and Stress-Induced Loss of NG2 Glia Triggers Emergence of Depressive-like Behaviors through Reduced Secretion of FGF2. <i>Neuron</i> , 2015, 88, 941-956.	8.1	158
7	Neurophysiology and Regulation of the Balance Between Excitation and Inhibition in Neocortical Circuits. <i>Biological Psychiatry</i> , 2017, 81, 821-831.	1.3	135
8	MeCP2 regulates the timing of critical period plasticity that shapes functional connectivity in primary visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4782-91.	7.1	122
9	Neural processing of gustatory information in insular circuits. <i>Current Opinion in Neurobiology</i> , 2012, 22, 709-716.	4.2	117
10	Inhibitory synaptic plasticity: spike timing-dependence and putative network function. <i>Frontiers in Neural Circuits</i> , 2013, 7, 119.	2.8	112
11	Network homeostasis: a matter of coordination. <i>Current Opinion in Neurobiology</i> , 2009, 19, 168-173.	4.2	99
12	Chapter 12 The age of plasticity: Developmental regulation of synaptic plasticity in neocortical microcircuits. <i>Progress in Brain Research</i> , 2008, 169, 211-223.	1.4	98
13	Critical Period for Inhibitory Plasticity in Rodent Binocular V1. <i>Journal of Neuroscience</i> , 2010, 30, 3304-3309.	3.6	80
14	Target-Specific Properties of Thalamocortical Synapses onto Layer 4 of Mouse Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 15455-15465.	3.6	80
15	Inhibitory Plasticity Dictates the Sign of Plasticity at Excitatory Synapses. <i>Journal of Neuroscience</i> , 2014, 34, 1083-1093.	3.6	79
16	Presynaptic Current Changes at the Mossy Fiber-Granule Cell Synapse of Cerebellum During LTP. <i>Journal of Neurophysiology</i> , 2002, 88, 627-638.	1.8	61
17	NO Enhances Presynaptic Currents During Cerebellar Mossy Fiber-Granule Cell LTP. <i>Journal of Neurophysiology</i> , 2003, 90, 2478-2483.	1.8	61
18	From Hiring to Firing: Activation of Inhibitory Neurons and Their Recruitment in Behavior. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 168.	2.9	60

#	ARTICLE	IF	CITATIONS
19	GABAergic synapses: their plasticity and role in sensory cortex - See more at: <a href="http://journal.frontiersin.org/journal/10.3389/fncel.2014.00091/abstract#sthash.15jGe6MC.dpuf">http://journal.frontiersin.org/journal/10.3389/fncel.2014.00091/abstract#sthash.15jGe6MC.dpuf</a> . Frontiers in Cellular Neuroscience, 2014, 8, 91.	3.7	57
20	The Many Forms and Functions of Long Term Plasticity at GABAergic Synapses. Neural Plasticity, 2011, 2011, 1-9.	2.2	52
21	Long-term potentiation of synaptic transmission at the mossy fiber-granule cell relay of cerebellum. Progress in Brain Research, 2005, 148, 69-80.	1.4	46
22	Layer-Specific Experience-Dependent Rewiring of Thalamocortical Circuits. Journal of Neuroscience, 2013, 33, 4181-4191.	3.6	43
23	Laminar- and Target-Specific Amygdalar Inputs in Rat Primary Gustatory Cortex. Journal of Neuroscience, 2016, 36, 2623-2637.	3.6	40
24	Experience-Dependent Switch in Sign and Mechanisms for Plasticity in Layer 4 of Primary Visual Cortex. Journal of Neuroscience, 2012, 32, 10562-10573.	3.6	35
25	Metastable dynamics of neural circuits and networks. Applied Physics Reviews, 2022, 9, 011313.	11.3	25
26	Fifty shades of inhibition. Current Opinion in Neurobiology, 2017, 43, 43-47.	4.2	24
27	Emerging Mechanisms Underlying Dynamics of GABAergic Synapses. Journal of Neuroscience, 2017, 37, 10792-10799.	3.6	24
28	Presynaptic GABAA Receptors Modulate Thalamocortical Inputs in Layer 4 of Rat V1. Cerebral Cortex, 2019, 29, 921-936.	2.9	22
29	Amygdala Stimulation Evokes Time-Varying Synaptic Responses in the Gustatory Cortex of Anesthetized Rats. Frontiers in Integrative Neuroscience, 2011, 5, 3.	2.1	21
30	Cannabinoid-dependent potentiation of inhibition at eye opening in mouse V1. Frontiers in Cellular Neuroscience, 2014, 8, 46.	3.7	20
31	Emerging feed-forward inhibition allows the robust formation of direction selectivity in the developing ferret visual cortex. Journal of Neurophysiology, 2014, 111, 2355-2373.	1.8	19
32	Layer-specific Developmental Changes in Excitation and Inhibition in Rat Primary Visual Cortex. ENeuro, 2017, 4, ENEURO.0402-17.2017.	1.9	19
33	LTD at amygdalocortical synapses as a novel mechanism for hedonic learning. ELife, 2020, 9, .	6.0	19
34	The ins and outs of inhibitory synaptic plasticity: Neuron types, molecular mechanisms and functional roles. European Journal of Neuroscience, 2021, 54, 6882-6901.	2.6	16
35	Reduced Dopamine Signaling Impacts Pyramidal Neuron Excitability in Mouse Motor Cortex. ENeuro, 2021, 8, ENEURO.0548-19.2021.	1.9	11
36	Homeostatic Plasticity in the Nervous System. Neural Plasticity, 2012, 2012, 1-2.	2.2	10

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37	Synaptic Integration of Thalamic and Limbic Inputs in Rodent Gustatory Cortex. <i>ENeuro</i> , 2020, 7, ENEURO.0199-19.2019.	1.9	10
38	Visual Experience Modulates Spatio-Temporal Dynamics of Circuit Activation. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 12.	3.7	9
39	Rapid plasticity of visually evoked responses in rat monocular visual cortex. <i>PLoS ONE</i> , 2017, 12, e0184618.	2.5	9
40	Developmental regulation of spatio-temporal patterns of cortical circuit activation. <i>Frontiers in Cellular Neuroscience</i> , 2013, 6, 65.	3.7	8
41	Versatility and Flexibility of Cortical Circuits. <i>Neuroscientist</i> , 2018, 24, 456-470.	3.5	8
42	Enriching the environment to disinhibit the brain and improve cognition. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 53.	3.7	5
43	Synaptic Dynamics: How Network Activity Affects Neuron Communication. <i>Current Biology</i> , 2015, 25, R278-R280.	3.9	5
44	The Many Faces of Inhibitory Plasticity: Adding Flexibility to Cortical Circuits Throughout Development. , 2011, , 3-16.		1
45	Developmental sequences in the maturation of intrinsic and synapse-driven patterns. , 2020, , 407-421.		0