

Ania K Majewska

List of Publications by Year in descending order

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73
papers

6,758
citations

172457

29
h-index

88630

70
g-index

80
all docs

80
docs citations

80
times ranked

7632
citing authors

#	ARTICLE	IF	CITATIONS
1	Microglial Interactions with Synapses Are Modulated by Visual Experience. <i>PLoS Biology</i> , 2010, 8, e1000527.	5.6	1,217
2	Next-Generation Optical Technologies for Illuminating Genetically Targeted Brain Circuits. <i>Journal of Neuroscience</i> , 2006, 26, 10380-10386.	3.6	708
3	Developmental regulation of spine motility in the mammalian central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 13438-13443.	7.1	389
4	From form to function: calcium compartmentalization in dendritic spines. <i>Nature Neuroscience</i> , 2000, 3, 653-659.	14.8	351
5	Effects of aging and sensory loss on glial cells in mouse visual and auditory cortices. <i>Glia</i> , 2012, 60, 541-558.	4.9	278
6	Mechanisms of Calcium Influx into Hippocampal Spines: Heterogeneity among Spines, Coincidence Detection by NMDA Receptors, and Optical Quantal Analysis. <i>Journal of Neuroscience</i> , 1999, 19, 1976-1987.	3.6	274
7	Detecting Action Potentials in Neuronal Populations with Calcium Imaging. <i>Methods</i> , 1999, 18, 215-221.	3.8	271
8	Dendritic Spine Dynamics Are Regulated by Monocular Deprivation and Extracellular Matrix Degradation. <i>Neuron</i> , 2004, 44, 1021-1030.	8.1	267
9	Mechanisms of Calcium Decay Kinetics in Hippocampal Spines: Role of Spine Calcium Pumps and Calcium Diffusion through the Spine Neck in Biochemical Compartmentalization. <i>Journal of Neuroscience</i> , 2000, 20, 1722-1734.	3.6	223
10	Remodeling of Synaptic Structure in Sensory Cortical Areas <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2006, 26, 3021-3029.	3.6	216
11	In Vivo Two-Photon Imaging Reveals a Role of Arc in Enhancing Orientation Specificity in Visual Cortex. <i>Cell</i> , 2006, 126, 389-402.	28.9	213
12	Noradrenergic signaling in the wakeful state inhibits microglial surveillance and synaptic plasticity in the mouse visual cortex. <i>Nature Neuroscience</i> , 2019, 22, 1782-1792.	14.8	211
13	Dendritic Spine Geometry: Functional Implication and Regulation. <i>Neuron</i> , 2005, 46, 529-532.	8.1	195
14	Regulation of Spine Calcium Dynamics by Rapid Spine Motility. <i>Journal of Neuroscience</i> , 2000, 20, 8262-8268.	3.6	183
15	Motility of dendritic spines in visual cortex in vivo: Changes during the critical period and effects of visual deprivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 16024-16029.	7.1	179
16	A custom-made two-photon microscope and deconvolution system. <i>Pflugers Archiv European Journal of Physiology</i> , 2000, 441, 398-408.	2.8	153
17	A role for microglia in synaptic plasticity?. <i>Communicative and Integrative Biology</i> , 2011, 4, 220-222.	1.4	144
18	Cerebellar microglia are dynamically unique and survey Purkinje neurons <i>in vivo</i> . <i>Developmental Neurobiology</i> , 2018, 78, 627-644.	3.0	90

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19	Structural Dynamics of Synapses <i>in Vivo</i> Correlate with Functional Changes during Experience-Dependent Plasticity in Visual Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 11086-11095.	3.6	83
20	Plasticity and specificity of cortical processing networks. <i>Trends in Neurosciences</i> , 2006, 29, 323-329.	8.6	72
21	HIV-1 Tat-Induced Microgliosis and Synaptic Damage via Interactions between Peripheral and Central Myeloid Cells. <i>PLoS ONE</i> , 2011, 6, e23915.	2.5	63
22	The microglial fractalkine receptor is not required for activity-dependent plasticity in the mouse visual system. <i>Glia</i> , 2017, 65, 1744-1761.	4.9	59
23	Optogenetic Delay of Status Epilepticus Onset in an <i>In Vivo</i> Rodent Epilepsy Model. <i>PLoS ONE</i> , 2013, 8, e62013.	2.5	58
24	A Thin-skull Window Technique for Chronic Two-photon <i>In vivo</i> Imaging of Murine Microglia in Models of Neuroinflammation. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	56
25	Preparation of Mouse Brain Tissue for Immunoelectron Microscopy. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	53
26	Effects of Synaptic Activity on Dendritic Spine Motility of Developing Cortical Layer V Pyramidal Neurons. <i>Cerebral Cortex</i> , 2006, 16, 730-741.	2.9	51
27	Rapid experience-dependent plasticity of synapse function and structure in ferret visual cortex <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21235-21240.	7.1	40
28	Intracranial Injection of Adeno-associated Viral Vectors. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	33
29	Proteolytic regulation of synaptic plasticity in the mouse primary visual cortex: analysis of matrix metalloproteinase 9 deficient mice. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 369.	3.7	33
30	Tumor Necrosis Factor- α and Basic Fibroblast Growth Factor Decrease Glial Fibrillary Acidic Protein and Its Encoding mRNA in Astrocyte Cultures and Glioblastoma Cells. <i>Journal of Neurochemistry</i> , 2002, 65, 2716-2724.	3.9	29
31	Experience-dependent regulation of CaMKII activity within single visual cortex synapses <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21241-21246.	7.1	28
32	Response: Raising the speed limit. <i>Trends in Neurosciences</i> , 2002, 25, 441.	8.6	26
33	Subcellular localization of intercellular adhesion molecule-5 (telencephalin) in the visual cortex is not developmentally regulated in the absence of matrix metalloproteinase-9. <i>Journal of Comparative Neurology</i> , 2014, 522, 676-688.	1.6	25
34	Little cells of the little brain: microglia in cerebellar development and function. <i>Trends in Neurosciences</i> , 2021, 44, 564-578.	8.6	23
35	Loss of P2Y12 Has Behavioral Effects in the Adult Mouse. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1868.	4.1	21
36	The Mouse Primary Visual Cortex Is a Site of Production and Sensitivity to Estrogens. <i>PLoS ONE</i> , 2011, 6, e20400.	2.5	20

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37	Developmental alcohol exposure impairs synaptic plasticity without overtly altering microglial function in mouse visual cortex. <i>Brain, Behavior, and Immunity</i> , 2018, 67, 257-278.	4.1	20
38	Expression of interleukin-11 and its encoding mRNA by glioblastoma cells. <i>Neuroscience Letters</i> , 1995, 196, 153-156.	2.1	19
39	Brain Tumor Imaging: Live Imaging of Glioma by Two-Photon Microscopy. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot073668.	0.3	19
40	Fluoxetine modulates breast cancer metastasis to the brain in a murine model. <i>BMC Cancer</i> , 2014, 14, 598.	2.6	19
41	The role of P2Y12 in the kinetics of microglial self-renewal and maturation in the adult visual cortex in vivo. <i>ELife</i> , 2021, 10, .	6.0	19
42	Rapid, long-term labeling of cells in the developing and adult rodent visual cortex using double-stranded adeno-associated viral vectors. <i>Developmental Neurobiology</i> , 2009, 69, 674-688.	3.0	16
43	What the Spectrum of Microglial Functions Can Teach us About Fetal Alcohol Spectrum Disorder. <i>Frontiers in Synaptic Neuroscience</i> , 2017, 9, 11.	2.5	16
44	The Role of Microglia in Neurodevelopmental Disorders and their Therapeutics. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 272-276.	2.1	16
45	Selective serotonin reuptake inhibitors for functional recovery after stroke: similarities with the critical period and the role of experience-dependent plasticity. <i>Journal of Neurology</i> , 2021, 268, 1203-1209.	3.6	16
46	An overview of microglia ontogeny and maturation in the homeostatic and pathological brain. <i>European Journal of Neuroscience</i> , 2021, 53, 3525-3547.	2.6	16
47	Topology of Gap Junction Networks in <i>C. elegans</i> . <i>Journal of Theoretical Biology</i> , 2001, 212, 155-167.	1.7	15
48	The effects of postnatal exposure to low-dose bisphenol-A on activity-dependent plasticity in the mouse sensory cortex. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 117.	1.7	14
49	Ethanol modulation of cerebellar neuroinflammation in a postnatal mouse model of fetal alcohol spectrum disorders. <i>Journal of Neuroscience Research</i> , 2021, 99, 1986-2007.	2.9	14
50	Persistent organic pollutants at the synapse: Shared phenotypes and converging mechanisms of developmental neurotoxicity. <i>Developmental Neurobiology</i> , 2021, 81, 623-652.	3.0	14
51	Chronic Imaging of Mouse Visual Cortex Using a Thinned-skull Preparation. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	13
52	Single- and Two-Photon Fluorescence Recovery after Photobleaching. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.top083519.	0.3	12
53	Acute ethanol exposure rapidly alters cerebellar and cortical microglial physiology. <i>European Journal of Neuroscience</i> , 2021, 54, 5834-5843.	2.6	11
54	Effects of Developmental Alcohol Exposure on Potentiation and Depression of Visual Cortex Responses. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 1434-1442.	2.4	10

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55	Ultrastructural Analyses of Microglial Interactions with Synapses. <i>Methods in Molecular Biology</i> , 2019, 2034, 83-95.	0.9	10
56	Phosphoinositide-3-Kinase \hat{I}^3 Is Not a Predominant Regulator of ATP-Dependent Directed Microglial Process Motility or Experience-Dependent Ocular Dominance Plasticity. <i>ENeuro</i> , 2020, 7, ENEURO.0311-20.2020.	1.9	10
57	Microglia and astrocytes show limited, acute alterations in morphology and protein expression following a single developmental alcohol exposure. <i>Journal of Neuroscience Research</i> , 2021, 99, 2008-2025.	2.9	9
58	Synaptic Mechanisms of Activity-Dependent Remodeling in Visual Cortex during Monocular Deprivation. <i>Journal of Experimental Neuroscience</i> , 2009, 2, JEN.S2559.	2.3	8
59	Postsynaptic Deregulation in GAP-43 Heterozygous Mouse Barrel Cortex. <i>Cerebral Cortex</i> , 2010, 20, 1696-1707.	2.9	8
60	Characterization of the BAC Id3-enhanced green fluorescent protein transgenic mouse line for <i>in vivo</i> imaging of astrocytes. <i>Neurophotonics</i> , 2014, 1, 011014.	3.3	8
61	Experience-dependent plasticity in visual cortex. <i>Communicative and Integrative Biology</i> , 2011, 4, 216-219.	1.4	7
62	Repopulated microglia induce expression of Cxcl13 with differential changes in Tau phosphorylation but do not impact amyloid pathology. <i>Journal of Neuroinflammation</i> , 2022, 19, .	7.2	7
63	Interactions between intercellular adhesion molecule-5 positive elements and their surroundings in the rodent visual cortex. <i>Communicative and Integrative Biology</i> , 2013, 6, e27315.	1.4	5
64	In Vivo Imaging of the Microglial Landscape After Whole Brain Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1066-1071.	0.8	5
65	Dynamics of microglia and dendritic spines in early adolescent cortex after developmental alcohol exposure. <i>Developmental Neurobiology</i> , 2021, 81, 786-804.	3.0	3
66	Imaging Visual Cortical Structure and Function In Vivo. <i>Journal of Glaucoma</i> , 2013, 22, S21-S23.	1.6	2
67	From Form to Function: Functional Exploration of Dendritic Morphology in CA1 Pyramidal Neurons. <i>Developmental Neuropsychology</i> , 1999, 16, 315-316.	1.4	1
68	Brain Tumor Imaging: Imaging Brain Metastasis Using a Brain-Metastasizing Breast Adenocarcinoma. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot073676.	0.3	1
69	Synapse-specific plasticity relies on neuroimmune interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	1
70	Two-photon investigation of calcium dynamics in dendritic spines during motility. , 2001, 4262, 354.		0
71	Special issue editorial: Glial plasticity in health and disease. <i>European Journal of Neuroscience</i> , 2021, 54, 5643-5648.	2.6	0
72	Reprogramming cortex. , 2006, , 349-360.		0

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73	Analysis of Glial Activation around Brain Metastases of Breast Tumors in a Mouse Model. FASEB Journal, 2015, 29, 613.6.	0.5	0