Srdjan D Antic

List of Publications by Year
in descending order

60 papers	2,596 citations	218677 26 h-index	197818 49 g-index
64 all docs	64 docs citations	64 times ranked	2752 citing authors

#	Article	IF	Citations
1	Evoked Cortical Depolarizations Before and After the Amyloid Plaque Accumulation: Voltage Imaging Study. Journal of Alzheimer's Disease, 2022, 88, 1443-1458.	2.6	1
2	Local glutamate-mediated dendritic plateau potentials change the state of the cortical pyramidal neuron. Journal of Neurophysiology, 2021, 125, 23-42.	1.8	14
3	Population imaging discrepancies between a genetically-encoded calcium indicator (GECI) versus a genetically-encoded voltage indicator (GEVI). Scientific Reports, 2021, 11, 5295.	3.3	11
4	Effects of I_h and TASK-like shunting current on dendritic impedance in layer 5 pyramidal-tract neurons. Journal of Neurophysiology, 2021, 125, 1501-1516.	1.8	9
5	Studying Synaptically Evoked Cortical Responses ex vivo With Combination of a Single Neuron Recording (Whole-Cell) and Population Voltage Imaging (Genetically Encoded Voltage Indicator). Frontiers in Neuroscience, 2021, 15, 773883.	2.8	3
6	Cadmium versus Lanthanum Effects on Spontaneous Electrical Activity and Expression of Connexin Isoforms Cx26, Cx36, and Cx45 in the Human Fetal Cortex. Cerebral Cortex, 2020, 30, 1244-1259.	2.9	2
7	Screening and Cellular Characterization of Genetically Encoded Voltage Indicators Based on Near-Infrared Fluorescent Proteins. ACS Chemical Neuroscience, 2020, 11, 3523-3531.	3.5	15
8	In VitroTesting of Voltage Indicators: Archon1, ArcLightD, ASAP1, ASAP2s, ASAP3b, Bongwoori-Pos6, BeRST1, FlicR1, and Chi-VSFP-Butterfly. ENeuro, 2020, 7, ENEURO.0060-20.2020.	1.9	35
9	Single-Neuron Level One-Photon Voltage Imaging With Sparsely Targeted Genetically Encoded Voltage Indicators. Frontiers in Cellular Neuroscience, 2019, 13, 39.	3.7	28
10	Editorial: New Insights on Neuron and Astrocyte Function From Cutting-Edge Optical Techniques. Frontiers in Cellular Neuroscience, 2019, 13, 463.	3.7	1
11	Mechanisms of Spontaneous Electrical Activity in the Developing Cerebral Cortexâ€”Mouse Subplate Zone. Cerebral Cortex, 2019, 29, 3363-3379.	2.9	13
12	Embedded ensemble encoding hypothesis: The role of the â€œPreparedâ€•cell. Journal of Neuroscience Research, 2018, 96, 1543-1559.	2.9	15
13	The stochastic nature of action potential backpropagation in apical tuft dendrites. Journal of Neurophysiology, 2017, 118, 1394-1414.	1.8	19
14	Transgenic Strategies for Sparse but Strong Expression of Genetically Encoded Voltage and Calcium Indicators. International Journal of Molecular Sciences, 2017, 18, 1461.	4.1	22
15	Voltage imaging to understand connections and functions of neuronal circuits. Journal of Neurophysiology, 2016, 116, 135-152.	1.8	80
16	Simultaneous recordings of voltage and current waveforms from dendrites. Journal of Physiology, 2016, 594, 2557-2558.	2.9	1
17	Intracellular Voltage-Sensitive Dyes for Studying Dendritic Excitability and Synaptic Integration. Neuromethods, 2016, , 247-265.	0.3	0
18	Contribution of extrasynapticN-methyl-<scp>d</scp>-aspartate and adenosine A1 receptors in the generation of dendritic glutamate-mediated plateau potentials. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140193.	4.0	3

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19	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. Advances in Experimental Medicine and Biology, 2015, 859, 57-101.	1.6	37
20	Dopamine Receptors in Human Embryonic Stem Cell Differentiation. Neuromethods, 2015, , 229-249.	0.3	0
21	Mechanisms of Spontaneous Electrical Activity in the Developing Cerebral Cortex â€“ Subplate Zone. FASEB Journal, 2015, 29, 657.5.	0.5	0
22	Spiny neurons of amygdala, striatum, and cortex use dendritic plateau potentials to detect network UP states. Frontiers in Cellular Neuroscience, 2014, 8, 292.	3.7	20
23	Branch specific and spike-order specific action potential invasion in basal, oblique, and apical dendrites of cortical pyramidal neurons. Neurophotonics, 2014, 2, 021006.	3.3	7
24	Connexin hemichannels contribute to spontaneous electrical activity in the human fetal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3919-28.	7.1	57
25	Patch-clamp recordings and calcium imaging followed by single-cell PCR reveal the developmental profile of 13 genes in iPSC-derived human neurons. Stem Cell Research, 2014, 12, 101-118.	0.7	44
26	Dopaminergic Regulation of Dendritic Calcium: Fast Multisite Calcium Imaging. Methods in Molecular Biology, 2013, 964, 123-138.	0.9	1
27	Neurogenic potential of hESC-derived human radial glia is amplified by human fetal cells. Stem Cell Research, 2013, 11, 587-600.	0.7	6
28	Dopamine Receptors in Human Embryonic Stem Cell Neurodifferentiation. Stem Cells and Development, 2013, 22, 1522-1540.	2.1	25
29	Mild Hypothermia Inhibits Differentiation of Human Embryonic and Induced Pluripotent Stem Cells. BioTechniques, 2013, 55, 79-82.	1.8	10
30	Extrasynaptic Glutamate Receptor Activation as Cellular Bases for Dynamic Range Compression in Pyramidal Neurons. Frontiers in Physiology, 2012, 3, 334.	2.8	33
31	Palette of fluorinated voltage-sensitive hemicyanine dyes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20443-20448.	7.1	162
32	Rapid dopaminergic and GABAergic modulation of calcium and voltage transients in dendrites of prefrontal cortex pyramidal neurons. Journal of Physiology, 2012, 590, 3891-3911.	2.9	18
33	Physiological Properties of Human Fetal Cortex In Vitro. Neuromethods, 2012, , 125-158.	0.3	13
34	Brief dopaminergic stimulations produce transient physiological changes in prefrontal pyramidal neurons. Brain Research, 2011, 1370, 1-15.	2.2	10
35	Physiological Properties of Neurons Derived from Human Embryonic Stem Cells Using a Dibutyryl Cyclic AMP-Based Protocol. Stem Cells and Development, 2011, 20, 1733-1746.	2.1	31
36	Spontaneous Electrical Activity in the Human Fetal CortexIn Vitro. Journal of Neuroscience, 2011, 31, 2391-2398.	3.6	88

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37	The decade of the dendritic NMDA spike. Journal of Neuroscience Research, 2010, 88, 2991-3001.	2.9	190
38	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. , 2010, , 25-41.		0
39	Electrical Excitability of Early Neurons in the Human Cerebral Cortex during the Second Trimester of Gestation. Cerebral Cortex, 2009, 19, 1795-1805.	2.9	95
40	Quantitative Assessment of the Distributions of Membrane Conductances Involved in Action Potential Backpropagation Along Basal Dendrites. Journal of Neurophysiology, 2009, 101, 1524-1541.	1.8	48
41	Dynamics of action potential backpropagation in basal dendrites of prefrontal cortical pyramidal neurons. European Journal of Neuroscience, 2008, 27, 923-936.	2.6	46
42	Radial Glia Cells in the Developing Human Brain. Neuroscientist, 2008, 14, 459-473.	3.5	82
43	Human Cortical Neurons Originate from Radial Glia and Neuron-Restricted Progenitors. Journal of Neuroscience, 2007, 27, 4132-4145.	3.6	100
44	Intracellular long-wavelength voltage-sensitive dyes for studying the dynamics of action potentials in axons and thin dendrites. Journal of Neuroscience Methods, 2007, 164, 225-239.	2.5	75
45	Voltage and calcium transients in basal dendrites of the rat prefrontal cortex. Journal of Physiology, 2007, 585, 447-468.	2.9	61
46	Initiation of Sodium Spikelets in Basal Dendrites of Neocortical Pyramidal Neurons. Journal of Membrane Biology, 2005, 208, 155-169.	2.1	61
47	Where Is the Spike Generator of the Cochlear Nerve? Voltage-Gated Sodium Channels in the Mouse Cochlea. Journal of Neuroscience, 2005, 25, 6857-6868.	3.6	147
48	A Strict Correlation between Dendritic and Somatic Plateau Depolarizations in the Rat Prefrontal Cortex Pyramidal Neurons. Journal of Neuroscience, 2005, 25, 3940-3951.	3.6	72
49	Voltage Imaging from Dendrites of Mitral Cells: EPSP Attenuation and Spike Trigger Zones. Journal of Neuroscience, 2004, 24, 6703-6714.	3.6	117
50	Burst generation in rat pyramidal neurones by regenerative potentials elicited in a restricted part of the basilar dendritic tree. Journal of Physiology, 2004, 558, 193-211.	2.9	77
51	Action Potentials in Basal and Oblique Dendrites of Rat Neocortical Pyramidal Neurons. Journal of Physiology, 2003, 550, 35-50.	2.9	124
52	Imaging Nervous System Activity with Voltageâ€Sensitive Dyes. Current Protocols in Neuroscience, 2003, 23, Unit 6.17.	2.6	15
53	Functional profile of the giant metacerebral neuron of Helix aspersa: temporal and spatial dynamics of electrical activity in situ. Journal of Physiology, 2000, 527, 55-69.	2.9	58
54	Imaging membrane potential with voltage-sensitive dyes. Biological Bulletin, 2000, 198, 1-21.	1.8	128

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55	Fast Optical Recordings of Membrane Potential Changes From Dendrites of Pyramidal Neurons. Journal of Neurophysiology, 1999, 82, 1615-1621.	1.8	95
56	Fast multisite optical measurement of membrane potential: three examples. FASEB Journal, 1999, 13, S271-6.	0.5	9
57	Fast optical measurement of membrane potential changes at multiple sites on an individual nerve cell. , 1998, 30, 197-216.		23
58	Fast Voltage-sensitive Dye Recording of Membrane Potential Changes at Multiple Sites on an Individual Nerve Cell in the Rat Cortical Slice. Biological Bulletin, 1997, 193, 261-261.	1.8	10
59	Optical signals from neurons with internally applied voltage-sensitive dyes. Journal of Neuroscience, 1995, 15, 1392-1405.	3.6	126
60	Temporal Dynamics of Spontaneous Ca2+ Transients, ERBB4, vGLUT1, GAD1, Connexin, and Pannexin Genes in Early Stages of Human Stem Cell Neurodifferentiation. , 0, , .		0