

Srdjan D Antic

List of Publications by Year in descending order

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Version: 2024-02-01

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	The decade of the dendritic NMDA spike. <i>Journal of Neuroscience Research</i> , 2010, 88, 2991-3001.	2.9	190
2	Palette of fluorinated voltage-sensitive hemicyanine dyes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20443-20448.	7.1	162
3	Where Is the Spike Generator of the Cochlear Nerve? Voltage-Gated Sodium Channels in the Mouse Cochlea. <i>Journal of Neuroscience</i> , 2005, 25, 6857-6868.	3.6	147
4	Imaging membrane potential with voltage-sensitive dyes. <i>Biological Bulletin</i> , 2000, 198, 1-21.	1.8	128
5	Optical signals from neurons with internally applied voltage-sensitive dyes. <i>Journal of Neuroscience</i> , 1995, 15, 1392-1405.	3.6	126
6	Action Potentials in Basal and Oblique Dendrites of Rat Neocortical Pyramidal Neurons. <i>Journal of Physiology</i> , 2003, 550, 35-50.	2.9	124
7	Voltage Imaging from Dendrites of Mitral Cells: EPSP Attenuation and Spike Trigger Zones. <i>Journal of Neuroscience</i> , 2004, 24, 6703-6714.	3.6	117
8	Human Cortical Neurons Originate from Radial Glia and Neuron-Restricted Progenitors. <i>Journal of Neuroscience</i> , 2007, 27, 4132-4145.	3.6	100
9	Fast Optical Recordings of Membrane Potential Changes From Dendrites of Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 1999, 82, 1615-1621.	1.8	95
10	Electrical Excitability of Early Neurons in the Human Cerebral Cortex during the Second Trimester of Gestation. <i>Cerebral Cortex</i> , 2009, 19, 1795-1805.	2.9	95
11	Spontaneous Electrical Activity in the Human Fetal Cortex <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2011, 31, 2391-2398.	3.6	88
12	Radial Glia Cells in the Developing Human Brain. <i>Neuroscientist</i> , 2008, 14, 459-473.	3.5	82
13	Voltage imaging to understand connections and functions of neuronal circuits. <i>Journal of Neurophysiology</i> , 2016, 116, 135-152.	1.8	80
14	Burst generation in rat pyramidal neurones by regenerative potentials elicited in a restricted part of the basilar dendritic tree. <i>Journal of Physiology</i> , 2004, 558, 193-211.	2.9	77
15	Intracellular long-wavelength voltage-sensitive dyes for studying the dynamics of action potentials in axons and thin dendrites. <i>Journal of Neuroscience Methods</i> , 2007, 164, 225-239.	2.5	75
16	A Strict Correlation between Dendritic and Somatic Plateau Depolarizations in the Rat Prefrontal Cortex Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 3940-3951.	3.6	72
17	Initiation of Sodium Spikelets in Basal Dendrites of Neocortical Pyramidal Neurons. <i>Journal of Membrane Biology</i> , 2005, 208, 155-169.	2.1	61
18	Voltage and calcium transients in basal dendrites of the rat prefrontal cortex. <i>Journal of Physiology</i> , 2007, 585, 447-468.	2.9	61

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19	Functional profile of the giant metacerebral neuron of <i>Helix aspersa</i> : temporal and spatial dynamics of electrical activity <i>in situ</i> . <i>Journal of Physiology</i> , 2000, 527, 55-69.	2.9	58
20	Connexin hemichannels contribute to spontaneous electrical activity in the human fetal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3919-28.	7.1	57
21	Quantitative Assessment of the Distributions of Membrane Conductances Involved in Action Potential Backpropagation Along Basal Dendrites. <i>Journal of Neurophysiology</i> , 2009, 101, 1524-1541.	1.8	48
22	Dynamics of action potential backpropagation in basal dendrites of prefrontal cortical pyramidal neurons. <i>European Journal of Neuroscience</i> , 2008, 27, 923-936.	2.6	46
23	Patch-clamp recordings and calcium imaging followed by single-cell PCR reveal the developmental profile of 13 genes in iPSC-derived human neurons. <i>Stem Cell Research</i> , 2014, 12, 101-118.	0.7	44
24	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. <i>Advances in Experimental Medicine and Biology</i> , 2015, 859, 57-101.	1.6	37
25	<i>In Vitro</i> Testing of Voltage Indicators: Archon1, ArcLightD, ASAP1, ASAP2s, ASAP3b, Bongwoori-Pos6, BeRST1, FlicR1, and Chi-VSFP-Butterfly. <i>ENeuro</i> , 2020, 7, ENEURO.0060-20.2020.	1.9	35
26	Extrasynaptic Glutamate Receptor Activation as Cellular Bases for Dynamic Range Compression in Pyramidal Neurons. <i>Frontiers in Physiology</i> , 2012, 3, 334.	2.8	33
27	Physiological Properties of Neurons Derived from Human Embryonic Stem Cells Using a Dibutyryl Cyclic AMP-Based Protocol. <i>Stem Cells and Development</i> , 2011, 20, 1733-1746.	2.1	31
28	Single-Neuron Level One-Photon Voltage Imaging With Sparsely Targeted Genetically Encoded Voltage Indicators. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 39.	3.7	28
29	Dopamine Receptors in Human Embryonic Stem Cell Neurodifferentiation. <i>Stem Cells and Development</i> , 2013, 22, 1522-1540.	2.1	25
30	Fast optical measurement of membrane potential changes at multiple sites on an individual nerve cell. <i>Journal of Neurophysiology</i> , 1998, 30, 197-216.		23
31	Transgenic Strategies for Sparse but Strong Expression of Genetically Encoded Voltage and Calcium Indicators. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1461.	4.1	22
32	Spiny neurons of amygdala, striatum, and cortex use dendritic plateau potentials to detect network UP states. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 292.	3.7	20
33	The stochastic nature of action potential backpropagation in apical tuft dendrites. <i>Journal of Neurophysiology</i> , 2017, 118, 1394-1414.	1.8	19
34	Rapid dopaminergic and GABAergic modulation of calcium and voltage transients in dendrites of prefrontal cortex pyramidal neurons. <i>Journal of Physiology</i> , 2012, 590, 3891-3911.	2.9	18
35	Imaging Nervous System Activity with Voltage-Sensitive Dyes. <i>Current Protocols in Neuroscience</i> , 2003, 23, Unit 6.17.	2.6	15
36	Embedded ensemble encoding hypothesis: The role of the "Prepared" cell. <i>Journal of Neuroscience Research</i> , 2018, 96, 1543-1559.	2.9	15

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37	Screening and Cellular Characterization of Genetically Encoded Voltage Indicators Based on Near-Infrared Fluorescent Proteins. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3523-3531.	3.5	15
38	Local glutamate-mediated dendritic plateau potentials change the state of the cortical pyramidal neuron. <i>Journal of Neurophysiology</i> , 2021, 125, 23-42.	1.8	14
39	Mechanisms of Spontaneous Electrical Activity in the Developing Cerebral Cortex—Mouse Subplate Zone. <i>Cerebral Cortex</i> , 2019, 29, 3363-3379.	2.9	13
40	Physiological Properties of Human Fetal Cortex In Vitro. <i>Neuromethods</i> , 2012, , 125-158.	0.3	13
41	Population imaging discrepancies between a genetically-encoded calcium indicator (GECI) versus a genetically-encoded voltage indicator (GEVI). <i>Scientific Reports</i> , 2021, 11, 5295.	3.3	11
42	Brief dopaminergic stimulations produce transient physiological changes in prefrontal pyramidal neurons. <i>Brain Research</i> , 2011, 1370, 1-15.	2.2	10
43	Mild Hypothermia Inhibits Differentiation of Human Embryonic and Induced Pluripotent Stem Cells. <i>BioTechniques</i> , 2013, 55, 79-82.	1.8	10
44	Fast Voltage-sensitive Dye Recording of Membrane Potential Changes at Multiple Sites on an Individual Nerve Cell in the Rat Cortical Slice. <i>Biological Bulletin</i> , 1997, 193, 261-261.	1.8	10
45	Fast multisite optical measurement of membrane potential: three examples. <i>FASEB Journal</i> , 1999, 13, S271-6.	0.5	9
46	Effects of I_{h} and TASK-like shunting current on dendritic impedance in layer 5 pyramidal-tract neurons. <i>Journal of Neurophysiology</i> , 2021, 125, 1501-1516.	1.8	9
47	Branch specific and spike-order specific action potential invasion in basal, oblique, and apical dendrites of cortical pyramidal neurons. <i>NeuroPhotonics</i> , 2014, 2, 021006.	3.3	7
48	Neurogenic potential of hESC-derived human radial glia is amplified by human fetal cells. <i>Stem Cell Research</i> , 2013, 11, 587-600.	0.7	6
49	Contribution of extrasynaptic N -methyl-D-aspartate and adenosine A1 receptors in the generation of dendritic glutamate-mediated plateau potentials. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140193.	4.0	3
50	Studying Synaptically Evoked Cortical Responses ex vivo With Combination of a Single Neuron Recording (Whole-Cell) and Population Voltage Imaging (Genetically Encoded Voltage Indicator). <i>Frontiers in Neuroscience</i> , 2021, 15, 773883.	2.8	3
51	Cadmium versus Lanthanum Effects on Spontaneous Electrical Activity and Expression of Connexin Isoforms Cx26, Cx36, and Cx45 in the Human Fetal Cortex. <i>Cerebral Cortex</i> , 2020, 30, 1244-1259.	2.9	2
52	Dopaminergic Regulation of Dendritic Calcium: Fast Multisite Calcium Imaging. <i>Methods in Molecular Biology</i> , 2013, 964, 123-138.	0.9	1
53	Simultaneous recordings of voltage and current waveforms from dendrites. <i>Journal of Physiology</i> , 2016, 594, 2557-2558.	2.9	1
54	Editorial: New Insights on Neuron and Astrocyte Function From Cutting-Edge Optical Techniques. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 463.	3.7	1

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55	Evoked Cortical Depolarizations Before and After the Amyloid Plaque Accumulation: Voltage Imaging Study. <i>Journal of Alzheimer's Disease</i> , 2022, 88, 1443-1458.	2.6	1
56	Temporal Dynamics of Spontaneous Ca ²⁺ Transients, ERBB4, vGLUT1, GAD1, Connexin, and Pannexin Genes in Early Stages of Human Stem Cell Neurodifferentiation. , 0, , .		0
57	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. , 2010, , 25-41.		0
58	Dopamine Receptors in Human Embryonic Stem Cell Differentiation. <i>Neuromethods</i> , 2015, , 229-249.	0.3	0
59	Mechanisms of Spontaneous Electrical Activity in the Developing Cerebral Cortex " Subplate Zone. <i>FASEB Journal</i> , 2015, 29, 657.5.	0.5	0
60	Intracellular Voltage-Sensitive Dyes for Studying Dendritic Excitability and Synaptic Integration. <i>Neuromethods</i> , 2016, , 247-265.	0.3	0