

# Janusz Lipski

## List of Publications by Year in descending order

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74  
papers

2,863  
citations

136885

32  
h-index

182361

51  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2786  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Oral Vaccine Against NMDAR1 with Efficacy in Experimental Stroke and Epilepsy. <i>Science</i> , 2000, 287, 1453-1460.	6.0	209
2	An intracellular study of respiratory neurons in the rostral ventrolateral medulla of the rat and their relationship to catecholamine-containing neurons. <i>Journal of Comparative Neurology</i> , 1990, 301, 604-617.	0.9	124
3	Involvement of TRP-like channels in the acute ischemic response of hippocampal CA1 neurons in brain slices. <i>Brain Research</i> , 2006, 1077, 187-199.	1.1	111
4	Differential expression of TRPM2 and TRPV4 channels and their potential role in oxidative stress-induced cell death in organotypic hippocampal culture. <i>NeuroToxicology</i> , 2010, 31, 204-214.	1.4	106
5	L-DOPA: A scapegoat for accelerated neurodegeneration in Parkinson's disease?. <i>Progress in Neurobiology</i> , 2011, 94, 389-407.	2.8	100
6	Temperature Sensitivity of Dopaminergic Neurons of the Substantia Nigra Pars Compacta: Involvement of Transient Receptor Potential Channels. <i>Journal of Neurophysiology</i> , 2005, 94, 3069-3080.	0.9	98
7	Differential expression of catecholamine biosynthetic enzymes in the rat ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2001, 432, 20-34.	0.9	83
8	A comparative study of pre-sympathetic and Bötzinger neurons in the rostral ventrolateral medulla (RVLM) of the rat. <i>Brain Research</i> , 1995, 699, 19-32.	1.1	79
9	Projections from the commissural subnucleus of the nucleus of the solitary tract: An anterograde tracing study in the cat. <i>Journal of Comparative Neurology</i> , 1992, 324, 365-378.	0.9	73
10	P2Y1 Receptor Modulation of the Pre-Bötzinger Complex Inspiratory Rhythm Generating Network In Vitro. <i>Journal of Neuroscience</i> , 2007, 27, 993-1005.	1.7	72
11	Acute action of rotenone on nigral dopaminergic neurons – involvement of reactive oxygen species and disruption of Ca <sup>2+</sup> homeostasis. <i>European Journal of Neuroscience</i> , 2009, 30, 1849-1859.	1.2	72
12	Substance P immunoreactive boutons form synapses with feline sympathetic preganglionic neurons. <i>Journal of Comparative Neurology</i> , 1992, 320, 121-135.	0.9	67
13	c-Jun promotes neurite outgrowth and survival in PC12 cells. <i>Molecular Brain Research</i> , 2000, 83, 20-33.	2.5	66
14	Respiratory interneurons in the C5 segment of the spinal cord of the cat. <i>Brain Research</i> , 1990, 533, 141-146.	1.1	65
15	Electrophysiological study of dorsal respiratory neurons in the medulla oblongata of the rat. <i>Brain Research</i> , 1994, 639, 49-56.	1.1	64
16	P2 Receptor Excitation of Rodent Hypoglossal Motoneuron Activity <i>In Vitro</i> and <i>In Vivo</i> : A Molecular Physiological Analysis. <i>Journal of Neuroscience</i> , 1997, 17, 6325-6337.	1.7	60
17	Efferent projections of pulmonary rapidly adapting receptor relay neurons in the cat. <i>Brain Research</i> , 1991, 564, 268-278.	1.1	58
18	Involvement of TRPV4 channels in A $\beta$ 240-induced hippocampal cell death and astrocytic Ca <sup>2+</sup> signalling. <i>NeuroToxicology</i> , 2014, 41, 64-72.	1.4	57

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19	Prolonged augmentation of respiratory discharge in hypoglossal motoneurons following superior laryngeal nerve stimulation. <i>Brain Research</i> , 1991, 538, 215-225.	1.1	48
20	Noradrenaline transporter expression in the pons and medulla oblongata of the rat: localisation to noradrenergic and some C1 adrenergic neurones. <i>Molecular Brain Research</i> , 1998, 62, 65-76.	2.5	45
21	GluR2 AMPA Receptor Subunit Expression in Motoneurons at Low and High Risk for Degeneration in Amyotrophic Lateral Sclerosis. <i>Experimental Neurology</i> , 2001, 169, 461-471.	2.0	45
22	<i>H</i> current generates the afterhyperpolarisation following activation of subthreshold cortical synaptic inputs to striatal cholinergic interneurons. <i>Journal of Physiology</i> , 2009, 587, 5879-5897.	1.3	45
23	KÄ¶lliker's Organ and the Development of Spontaneous Activity in the Auditory System: Implications for Hearing Dysfunction. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	44
24	Expression and functional properties of TRPM2 channels in dopaminergic neurons of the substantia nigra of the rat. <i>Journal of Neurophysiology</i> , 2011, 106, 2865-2875.	0.9	43
25	Synaptic inputs to medullary respiratory neurons from superior laryngeal afferents in the cat. <i>Brain Research</i> , 1992, 584, 197-206.	1.1	42
26	Localization of the Noradrenaline Transporter in Rat Adrenal Medulla and PC12 Cells. <i>Journal of Neurochemistry</i> , 2001, 73, 1024-1032.	2.1	42
27	Single-cell RT-PCR as a tool to study gene expression in central and peripheral autonomic neurons. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2000, 86, 1-12.	1.4	41
28	Dual effects of L-DOPA on nigral dopaminergic neurons. <i>Experimental Neurology</i> , 2013, 247, 582-594.	2.0	39
29	Effects of cyanide and hypoxia on membrane currents in neurones acutely dissociated from the rostral ventrolateral medulla of the rat. <i>Brain Research</i> , 1999, 830, 246-257.	1.1	38
30	Calcium binding proteins in motoneurons at low and high risk for degeneration in ALS. <i>NeuroReport</i> , 2000, 11, 3305-3308.	0.6	34
31	Acute Effects of 6-Hydroxydopamine on Dopaminergic Neurons of the Rat Substantia Nigra Pars Compacta In Vitro. <i>NeuroToxicology</i> , 2005, 26, 869-881.	1.4	34
32	A Novel Electrochemical Approach for Prolonged Measurement of Absolute Levels of Extracellular Dopamine in Brain Slices. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1802-1812.	1.7	33
33	Unique levels of expression of N-methyl-d-aspartate receptor subunits and neuronal nitric oxide synthase in the rostral ventrolateral medulla of the spontaneously hypertensive rat. <i>Molecular Brain Research</i> , 2004, 129, 33-43.	2.5	32
34	Projections from inspiratory neurons of the ventral respiratory group to the subretrofacial nucleus of the cat. <i>Brain Research</i> , 1994, 633, 63-71.	1.1	31
35	Differential expression of Group I metabotropic glutamate receptors in motoneurons at low and high risk for degeneration in ALS. <i>NeuroReport</i> , 2001, 12, 1903-1908.	0.6	31
36	Receptor subtype-specific modulation by dopamine of glutamatergic responses in striatal medium spiny neurons. <i>Brain Research</i> , 2003, 959, 251-262.	1.1	31

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37	Bulbo-spinal neurons activated by baroreceptor afferents and their possible role in inhibition of preganglionic sympathetic neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 1975, 356, 181-192.	1.3	30
38	Reduced hypotensive effect of clonidine after lesions of the nucleus tractus solitarii in rats. <i>European Journal of Pharmacology</i> , 1976, 38, 19-22.	1.7	29
39	Modulation of phrenic motoneuron excitability by ATP: consequences for respiratory-related output in vitro. <i>Journal of Applied Physiology</i> , 2002, 92, 1899-1910.	1.2	29
40	Detection of mRNA species in bulbo-spinal neurons isolated from the rostral ventrolateral medulla using single-cell RT-PCR. <i>Brain Research Protocols</i> , 1999, 4, 367-377.	1.7	27
41	Differential expression of the noradrenaline transporter in adrenergic chromaffin cells, ganglion cells and nerve fibres of the rat adrenal medulla. <i>Journal of Chemical Neuroanatomy</i> , 2001, 21, 95-104.	1.0	27
42	Effects of the Parkinsonian toxin MPP+ on electrophysiological properties of nigral dopaminergic neurons. <i>NeuroToxicology</i> , 2014, 45, 1-11.	1.4	26
43	Effects of muscarinic acetylcholine receptor activation on membrane currents and intracellular messengers in medium spiny neurones of the rat striatum. <i>European Journal of Neuroscience</i> , 2004, 20, 1219-1230.	1.2	25
44	Action potential and calcium dependence of tonic somatodendritic dopamine release in the Substantia Nigra pars compacta. <i>Journal of Neurochemistry</i> , 2019, 148, 462-479.	2.1	25
45	Oxygen and glucose deprivation (OGD)-induced spreading depression in the Substantia Nigra. <i>Brain Research</i> , 2013, 1527, 209-221.	1.1	24
46	Expression of the noradrenaline transporter and phenylethanolamine N-methyltransferase in normal human adrenal gland and pheochromocytoma. <i>Cell and Tissue Research</i> , 2005, 322, 443-453.	1.5	22
47	Dendritic Projections and Dye-Coupling in Dopaminergic Neurons of the Substantia Nigra Examined in Horizontal Brain Slices From Young Rats. <i>Journal of Neurophysiology</i> , 2003, 90, 2531-2535.	0.9	20
48	Split medulla preparation in the cat: arterial chemoreceptor reflex and respiratory modulation of the renal sympathetic nerve activity. <i>Journal of the Autonomic Nervous System</i> , 1985, 12, 211-225.	1.9	19
49	Decreased excitability of respiratory motoneurons during hypercapnia in the acute spinal cat. <i>Brain Research</i> , 1986, 386, 296-304.	1.1	19
50	Developmental downregulation of P2X3 receptors in motoneurons of the compact formation of the nucleus ambiguus. <i>European Journal of Neuroscience</i> , 2005, 22, 809-824.	1.2	19
51	Glutamate spillover drives endocannabinoid production and inhibits GABAergic transmission in the Substantia Nigra pars compacta. <i>Neuropharmacology</i> , 2014, 79, 467-475.	2.0	19
52	Putative role of border cells in generating spontaneous morphological activity within KÄ¶lliker's organ. <i>Hearing Research</i> , 2015, 330, 90-97.	0.9	19
53	Dual fluorescence combined with a two-color immunoperoxidase technique: A new way of visualizing diverse neuronal elements. <i>Journal of Neuroscience Methods</i> , 1991, 36, 185-193.	1.3	17
54	Differential expression of voltage-activated calcium channels in III and XII motoneurons during development in the rat. <i>European Journal of Neuroscience</i> , 2004, 20, 903-913.	1.2	17

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55	Effects of vasopressin on isolated rat adrenal chromaffin cells. <i>Regulatory Peptides</i> , 2002, 106, 55-65.	1.9	15
56	Respiratory rhythmicity in a split medulla preparation of the cat. <i>Experimental Neurology</i> , 1987, 96, 720-726.	2.0	14
57	Whole cell patch-clamp study of putative vasomotor neurons isolated from the rostral ventrolateral medulla. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 274, R1099-R1110.	0.9	14
58	Differential expression of catecholamine synthetic enzymes in the caudal ventral pons. <i>Journal of Comparative Neurology</i> , 2001, 438, 457-467.	0.9	14
59	The network vs. pacemaker theory of the activity of RVL presympathetic neurons-a comparison with another putative pacemaker system. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002, 98, 85-89.	1.4	14
60	Modulation of ACh-induced currents in rat adrenal chromaffin cells by ligands of $\alpha_2$ adrenergic and imidazoline receptors. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2001, 88, 151-159.	1.4	12
61	Crosstalk between mitochondria, calcium channels and actin cytoskeleton modulates noradrenergic activity of locus coeruleus neurons. <i>Journal of Neurochemistry</i> , 2019, 149, 471-487.	2.1	12
62	Do $\beta_3$ -motoneurons lack a long-lasting afterhyperpolarization?. <i>Brain Research</i> , 1979, 172, 349-353.	1.1	11
63	Dopaminergic Substantia Nigra Neurons Express Functional NMDA Receptors in Postnatal Rats. <i>Journal of Neurophysiology</i> , 2001, 85, 1336-1339.	0.9	11
64	Properties of dopaminergic neurons in organotypic mesencephalic-striatal co-cultures - evidence for a facilitatory effect of dopamine on the glutamatergic input mediated by $\alpha_1$ adrenergic receptors. <i>European Journal of Neuroscience</i> , 2011, 33, 1622-1636.	1.2	11
65	Paradoxical lower sensitivity of Locus Coeruleus than Substantia Nigra pars compacta neurons to acute actions of rotenone. <i>Experimental Neurology</i> , 2017, 287, 34-43.	2.0	11
66	Contribution of calpain activation to early stages of hippocampal damage during oxygen-glucose deprivation. <i>Brain Research</i> , 2008, 1196, 121-130.	1.1	10
67	Role of homeostatic feedback mechanisms in modulating methylphenidate actions on phasic dopamine signaling in the striatum of awake behaving rats. <i>Progress in Neurobiology</i> , 2019, 182, 101681.	2.8	10
68	Dopamine Dysregulation and Altered Responses to Drugs Affecting Dopaminergic Transmission in a New Dopamine Transporter Knockout (DAT-KO) Rat Model. <i>Neuroscience</i> , 2022, 491, 43-64.	1.1	7
69	Acute sensitivity of astrocytes in the Substantia Nigra to oxygen and glucose deprivation (OGD) compared with hippocampal astrocytes in brain slices. <i>Neuroscience Letters</i> , 2018, 685, 137-143.	1.0	5
70	Electrophysiological Characterization of Novel Effects of the Uptake-2 Blocker Decynium-22 (D-22) on Dopaminergic Neurons in the Substantia Nigra Pars Compacta. <i>Neuroscience</i> , 2019, 396, 154-165.	1.1	5
71	Effect of Low $Mg^{2+}$ and Bicuculline on Cell Survival in Hippocampal Slice Cultures. <i>International Journal of Neuroscience</i> , 2010, 120, 752-759.	0.8	4
72	Differential spread of anoxic depolarization contributes to the pattern of neuronal injury after oxygen and glucose deprivation (OGD) in the Substantia Nigra in rat brain slices. <i>Neuroscience</i> , 2017, 340, 359-372.	1.1	4

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73	Excitatory drive from the Subthalamic nucleus attenuates GABAergic transmission in the Substantia Nigra pars compacta via endocannabinoids. European Journal of Pharmacology, 2015, 767, 144-151.	1.7	2
74	Electrophysiological and Anatomical Studies of the Second Order Neurons in the Reflex Pathway from Pulmonary Rapidly Adapting Receptors in the Cat. , 1992, , 83-86.		0