

J Hounsgaard

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

5,362

citations

40

h-index

73

g-index

82

ext. papers

5,815

ext. citations

5.3

avg, IF

5.46

L-index

#	Paper	IF	Citations
82	Bistability of alpha-motoneurons in the decerebrate cat and in the acute spinal cat after intravenous 5-hydroxytryptophan. <i>Journal of Physiology</i> , 1988 , 405, 345-67	3.9	531
81	Serotonin-induced bistability of turtle motoneurons caused by a nifedipine-sensitive calcium plateau potential. <i>Journal of Physiology</i> , 1989 , 414, 265-82	3.9	358
80	Influence of phasic and tonic dopamine release on receptor activation. <i>Journal of Neuroscience</i> , 2010 , 30, 14273-83	6.6	266
79	Intrinsic membrane properties causing a bistable behaviour of alpha-motoneurons. <i>Experimental Brain Research</i> , 1984 , 55, 391-4	2.3	232
78	Ca ⁺⁺ dependent bistability induced by serotonin in spinal motoneurons. <i>Experimental Brain Research</i> , 1985 , 57, 422-5	2.3	225
77	Anoxia increases potassium conductance in hippocampal nerve cells. <i>Acta Physiologica Scandinavica</i> , 1982 , 115, 301-10		224
76	Presynaptic inhibitory action of acetylcholine in area CA1 of the hippocampus. <i>Experimental Neurology</i> , 1978 , 62, 787-97	5.7	196
75	Balanced inhibition and excitation drive spike activity in spinal half-centers. <i>Science</i> , 2007 , 315, 390-3	33.3	184
74	Calcium spikes and calcium plateaux evoked by differential polarization in dendrites of turtle motoneurons in vitro. <i>Journal of Physiology</i> , 1993 , 468, 245-59	3.9	155
73	Response properties of motoneurons in a slice preparation of the turtle spinal cord. <i>Journal of Physiology</i> , 1988 , 398, 575-89	3.9	138
72	Effects of electric fields on transmembrane potential and excitability of turtle cerebellar Purkinje cells in vitro. <i>Journal of Physiology</i> , 1988 , 402, 751-71	3.9	136
71	Calcium conductance and firing properties of spinal motoneurons in the turtle. <i>Journal of Physiology</i> , 1988 , 398, 591-603	3.9	131
70	Transmitter regulation of plateau properties in turtle motoneurons. <i>Journal of Neurophysiology</i> , 1998 , 79, 45-50	3.2	111
69	5-HT ₂ receptors promote plateau potentials in turtle spinal motoneurons by facilitating an L-type calcium current. <i>Journal of Neurophysiology</i> , 2003 , 89, 954-9	3.2	101
68	Plateau-generating neurones in the dorsal horn in an in vitro preparation of the turtle spinal cord. <i>Journal of Physiology</i> , 1996 , 493 (Pt 1), 39-54	3.9	97
67	Short-term plasticity in turtle dorsal horn neurons mediated by L-type Ca ²⁺ channels. <i>Neuroscience</i> , 1994 , 61, 191-7	3.9	97
66	Intrinsic determinants of firing pattern in Purkinje cells of the turtle cerebellum in vitro. <i>Journal of Physiology</i> , 1988 , 402, 731-49	3.9	93

65	Spinal plasticity mediated by postsynaptic L-type Ca ²⁺ channels. <i>Brain Research Reviews</i> , 2002 , 40, 223-9		92
64	Depolarization-induced facilitation of a plateau-generating current in ventral horn neurons in the turtle spinal cord. <i>Journal of Neurophysiology</i> , 1997 , 78, 1740-2	3.2	89
63	Potassium accumulation around individual purkinje cells in cerebellar slices from the guinea-pig. <i>Journal of Physiology</i> , 1983 , 340, 359-88	3.9	89
62	Metabotropic synaptic regulation of intrinsic response properties of turtle spinal motoneurons. <i>Journal of Physiology</i> , 1997 , 504 (Pt 1), 97-102	3.9	75
61	Subcellular distribution of L-type Ca ²⁺ channels responsible for plateau potentials in motoneurons from the lumbar spinal cord of the turtle. <i>European Journal of Neuroscience</i> , 2003 , 18, 258-66	3.5	75
60	Direct monitoring of dopamine and 5-HT release in substantia nigra and ventral tegmental area in vitro. <i>Experimental Brain Research</i> , 1994 , 100, 395-406	2.3	75
59	Periodic high-conductance states in spinal neurons during scratch-like network activity in adult turtles. <i>Journal of Neuroscience</i> , 2005 , 25, 6316-21	6.6	71
58	Development and regulation of response properties in spinal cord motoneurons. <i>Brain Research Bulletin</i> , 2000 , 53, 529-35	3.9	68
57	Transmitter-controlled properties of alpha-motoneurons causing long-lasting motor discharge to brief excitatory inputs. <i>Progress in Brain Research</i> , 1986 , 64, 39-49	2.9	62
56	Modulation of plateau properties in dorsal horn neurones in a slice preparation of the turtle spinal cord. <i>Journal of Physiology</i> , 1997 , 499 (Pt 2), 459-74	3.9	61
55	Non-volatile general anaesthetics reduce spinal activity by suppressing plateau potentials. <i>Neuroscience</i> , 1999 , 88, 353-8	3.9	60
54	Ca ²⁺ -Mediated Plateau Potentials in a Subpopulation of Interneurons in the Ventral Horn of the Turtle Spinal Cord. <i>European Journal of Neuroscience</i> , 1992 , 4, 183-188	3.5	58
53	An M-like outward current regulates the excitability of spinal motoneurons in the adult turtle. <i>Journal of Physiology</i> , 2002 , 540, 875-81	3.9	57
52	NMDA-Induced intrinsic voltage oscillations depend on L-type calcium channels in spinal motoneurons of adult turtles. <i>Journal of Neurophysiology</i> , 1998 , 80, 3380-2	3.2	56
51	Inhibitory control of plateau properties in dorsal horn neurones in the turtle spinal cord in vitro. <i>Journal of Physiology</i> , 1998 , 506 (Pt 3), 795-808	3.9	48
50	Burst-generating neurones in the dorsal horn in an in vitro preparation of the turtle spinal cord. <i>Journal of Physiology</i> , 1996 , 493 (Pt 1), 55-66	3.9	48
49	Local facilitation of plateau potentials in dendrites of turtle motoneurons by synaptic activation of metabotropic receptors. <i>Journal of Physiology</i> , 1999 , 515 (Pt 1), 203-7	3.9	47
48	Dynamics of intrinsic electrophysiological properties in spinal cord neurones. <i>Progress in Biophysics and Molecular Biology</i> , 1999 , 72, 329-65	4.7	47

47	Ca(2+)-activated nonselective cationic current (I(CAN)) in turtle motoneurons. <i>Journal of Neurophysiology</i> , 1999 , 82, 730-5	3.2	45
46	5-HT1A receptors increase excitability of spinal motoneurons by inhibiting a TASK-1-like K ⁺ current in the adult turtle. <i>Journal of Physiology</i> , 2003 , 548, 485-92	3.9	43
45	Voltage fluctuations in neurons: signal or noise?. <i>Physiological Reviews</i> , 2011 , 91, 917-29	47.9	42
44	Intense synaptic activity enhances temporal resolution in spinal motoneurons. <i>PLoS ONE</i> , 2008 , 3, e32183.7	3.7	41
43	Synaptic control of excitability in turtle cerebellar Purkinje cells. <i>Journal of Physiology</i> , 1989 , 409, 157-70.3.9	3.9	41
42	Facilitation of plateau potentials in turtle motoneurons by a pathway dependent on calcium and calmodulin. <i>Journal of Physiology</i> , 2000 , 528 Pt 1, 107-13	3.9	40
41	Motoneuron membrane potentials follow a time inhomogeneous jump diffusion process. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 563-79	1.4	35
40	Spatial integration of local transmitter responses in motoneurons of the turtle spinal cord in vitro. <i>Journal of Physiology</i> , 1994 , 479 (Pt 2), 233-46	3.9	34
39	Dendrite processing in more ways than one. <i>Trends in Neurosciences</i> , 1989 , 12, 313-5	13.3	31
38	Detection of a membrane shunt by DC field polarization during intracellular and whole cell recording. <i>Journal of Neurophysiology</i> , 1997 , 77, 579-86	3.2	29
37	Electrotonic structure of motoneurons in the spinal cord of the turtle: inferences for the mechanisms of bistability. <i>Journal of Neurophysiology</i> , 2001 , 85, 391-8	3.2	29
36	Excitatory synaptic responses in turtle cerebellar Purkinje cells. <i>Journal of Physiology</i> , 1989 , 409, 143-56.3.9	3.9	29
35	Adapting motoneurons for motor behavior. <i>Progress in Brain Research</i> , 1999 , 123, 57-63	2.9	28
34	Dendritic spikes in Purkinje cells of the guinea pig cerebellum studied in vitro. <i>Experimental Brain Research</i> , 1979 , 37, 387-98	2.3	28
33	Cellular signalling properties in microcircuits. <i>Trends in Neurosciences</i> , 2005 , 28, 534-40	13.3	27
32	Mathematical model of dopamine autoreceptors and uptake inhibitors and their influence on tonic and phasic dopamine signaling. <i>Journal of Neurophysiology</i> , 2013 , 109, 171-82	3.2	26
31	Electrotonic measurements by electric field-induced polarization in neurons: theory and experimental estimation. <i>Biophysical Journal</i> , 1997 , 73, 3004-15	2.9	25
30	Dorsal root potential produced by a TTX-insensitive micro-circuitry in the turtle spinal cord. <i>Journal of Physiology</i> , 2000 , 528 Pt 1, 115-22	3.9	25

29	Intrinsic control of electroresponsive properties of transplanted mammalian brain neurons. <i>Brain Research</i> , 1985 , 335, 372-6	3.7	24
28	Chemical and electrical stimulation induce rhythmic motor activity in an in vitro preparation of the spinal cord from adult turtles. <i>Neuroscience Letters</i> , 1998 , 245, 5-8	3.3	23
27	Stereological estimate of the total number of neurons in spinal segment D9 of the red-eared turtle. <i>Journal of Neuroscience</i> , 2011 , 31, 2431-5	6.6	21
26	Multiple actions of iontophoretically applied serotonin on motoneurons in the turtle spinal cord in vitro. <i>Acta Physiologica Scandinavica</i> , 1996 , 158, 301-10		21
25	Roles of ryanodine and inositol triphosphate receptors in regulation of plateau potentials in turtle spinal motoneurons. <i>Neuroscience</i> , 2004 , 123, 123-30	3.9	17
24	L-type calcium channels but not N-methyl-D-aspartate receptor channels mediate rhythmic activity induced by cholinergic agonist in motoneurons from turtle spinal cord slices. <i>Neuroscience Letters</i> , 1999 , 261, 81-4	3.3	16
23	Electrophysiological localization of distinct calcium potentials at selective somatodendritic sites in the substantia nigra. <i>Neuroscience</i> , 1992 , 50, 513-8	3.9	16
22	Pacemaker properties of mammalian Purkinje cells. <i>Acta Physiologica Scandinavica</i> , 1979 , 106, 91-2		16
21	Irregular Firing and High-Conductance States in Spinal Motoneurons during Scratching and Swimming. <i>Journal of Neuroscience</i> , 2016 , 36, 5799-807	6.6	13
20	Opposing Effects of Intrinsic Conductance and Correlated Synaptic Input on V-Fluctuations during Network Activity. <i>Frontiers in Computational Neuroscience</i> , 2012 , 6, 40	3.5	13
19	Signaling in large-scale neural networks. <i>Cognitive Processing</i> , 2009 , 10 Suppl 1, S9-15	1.5	13
18	Organization of projection-specific interneurons in the spinal cord of the red-eared turtle. <i>Brain, Behavior and Evolution</i> , 2008 , 72, 179-91	1.5	13
17	CNTF inhibits high voltage activated Ca ²⁺ currents in fetal mouse cortical neurones. <i>Journal of Neurochemistry</i> , 2002 , 82, 495-503	6	13
16	Dedifferentiation of intrinsic response properties of motoneurons in organotypic cultures of the spinal cord of the adult turtle. <i>European Journal of Neuroscience</i> , 2000 , 12, 2397-404	3.5	13
15	Dense distributed processing in a hindlimb scratch motor network. <i>Journal of Neuroscience</i> , 2014 , 34, 10756-64	6.6	12
14	Increased activity of pre-motor network does not change the excitability of motoneurons during protracted scratch initiation. <i>Journal of Physiology</i> , 2013 , 591, 1851-8	3.9	12
13	Influence of membrane properties on spike synchronization in neurons: theory and experiments. <i>Network: Computation in Neural Systems</i> , 2003 , 14, 747-763	0.7	12
12	Fast Na ⁺ spike generation in dendrites of guinea-pig substantia nigra pars compacta neurons. <i>Neuroscience</i> , 1996 , 73, 381-96	3.9	11

11	Synaptic Excitation in Spinal Motoneurons Alternates with Synaptic Inhibition and Is Balanced by Outward Rectification during Rhythmic Motor Network Activity. <i>Journal of Neuroscience</i> , 2017 , 37, 9239-9248	6.6	8
10	Inhibition produced by iontophoretically applied acetylcholine in area CA1 of thin hippocampal slices from the rat. <i>Acta Physiologica Scandinavica</i> , 1978 , 103, 110-1		6
9	Inhibition of motoneurons during the cutaneous silent period in the spinal cord of the turtle. <i>Experimental Brain Research</i> , 2012 , 220, 23-8	2.3	4
8	Conditional intrinsic voltage oscillations in mature vertebrate neurons undergo specific changes in culture. <i>Journal of Neurophysiology</i> , 2006 , 95, 2024-7	3.2	4
7	Oscillatory interaction between dorsal root excitability and dorsal root potentials in the spinal cord of the turtle. <i>Neuroscience</i> , 1999 , 93, 731-9	3.9	3
6	Monosynaptic connections between primary afferents and giant neurons in the turtle spinal dorsal horn. <i>Experimental Brain Research</i> , 1996 , 108, 347-56	2.3	3
5	Heterosynaptic modulation of the dorsal root potential in the turtle spinal cord in vitro. <i>Experimental Brain Research</i> , 2007 , 177, 275-84	2.3	2
4	Direct monitoring of dopamine and 5-HT release in substantia nigra and ventral tegmental area in vitro. <i>Experimental Brain Research</i> , 1994 , 79, 395	2.3	1
3	Detection of inhomogeneities in membrane ohmic resistance in geometrically complex systems. <i>Membrane & Cell Biology</i> , 2000 , 14, 413-20		1
2	Excitatory and inhibitory synaptic mechanisms at the first stage of integration in the electroreception system of the shark. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 72	6.1	0
1	European brain research. <i>Nature</i> , 1994 , 369, 601		50.4