

J Hounsgaard

List of Publications by Year in Descending Order

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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	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
81	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
80	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
79	Dense distributed processing in a hindlimb scratch motor network. <i>Journal of Neuroscience</i> , 2014 , 34, 10756-64	6.6	12
78	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
77	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
76	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
75	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
74	Motoneuron membrane potentials follow a time inhomogeneous jump diffusion process. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 563-79	1.4	35
73	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
72	Voltage fluctuations in neurons: signal or noise?. <i>Physiological Reviews</i> , 2011 , 91, 917-29	47.9	42
71	Influence of phasic and tonic dopamine release on receptor activation. <i>Journal of Neuroscience</i> , 2010 , 30, 14273-83	6.6	266
70	Signaling in large-scale neural networks. <i>Cognitive Processing</i> , 2009 , 10 Suppl 1, S9-15	1.5	13
69	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
68	Intense synaptic activity enhances temporal resolution in spinal motoneurons. <i>PLoS ONE</i> , 2008 , 3, e32183	3.7	41
67	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
66	Balanced inhibition and excitation drive spike activity in spinal half-centers. <i>Science</i> , 2007 , 315, 390-3	33.3	184

65	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
64	Cellular signalling properties in microcircuits. <i>Trends in Neurosciences</i> , 2005 , 28, 534-40	13.3	27
63	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
62	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
61	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
60	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
59	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
58	5-HT _{1A} 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
57	CNTF inhibits high voltage activated Ca ²⁺ currents in fetal mouse cortical neurones. <i>Journal of Neurochemistry</i> , 2002 , 82, 495-503	6	13
56	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
55	Spinal plasticity mediated by postsynaptic L-type Ca ²⁺ channels. <i>Brain Research Reviews</i> , 2002 , 40, 223-9		92
54	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
53	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
52	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
51	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
50	Development and regulation of response properties in spinal cord motoneurons. <i>Brain Research Bulletin</i> , 2000 , 53, 529-35	3.9	68
49	Detection of inhomogeneities in membrane ohmic resistance in geometrically complex systems. <i>Membrane & Cell Biology</i> , 2000 , 14, 413-20		1
48	Ca(2+)-activated nonselective cationic current (I(CAN)) in turtle motoneurons. <i>Journal of Neurophysiology</i> , 1999 , 82, 730-5	3.2	45

47	Adapting motoneurons for motor behavior. <i>Progress in Brain Research</i> , 1999 , 123, 57-63	2.9	28
46	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
45	Dynamics of intrinsic electrophysiological properties in spinal cord neurones. <i>Progress in Biophysics and Molecular Biology</i> , 1999 , 72, 329-65	4.7	47
44	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
43	Non-volatile general anaesthetics reduce spinal activity by suppressing plateau potentials. <i>Neuroscience</i> , 1999 , 88, 353-8	3.9	60
42	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
41	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
40	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
39	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
38	Transmitter regulation of plateau properties in turtle motoneurons. <i>Journal of Neurophysiology</i> , 1998 , 79, 45-50	3.2	111
37	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
36	Electrotonic measurements by electric field-induced polarization in neurons: theory and experimental estimation. <i>Biophysical Journal</i> , 1997 , 73, 3004-15	2.9	25
35	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
34	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
33	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
32	Fast Na ⁺ spike generation in dendrites of guinea-pig substantia nigra pars compacta neurons. <i>Neuroscience</i> , 1996 , 73, 381-96	3.9	11
31	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
30	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

29	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
28	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
27	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
26	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
25	European brain research. <i>Nature</i> , 1994 , 369, 601	50.4	
24	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
23	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
22	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
21	Electrophysiological localization of distinct calcium potentials at selective somatodendritic sites in the substantia nigra. <i>Neuroscience</i> , 1992 , 50, 513-8	3.9	16
20	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
19	Synaptic control of excitability in turtle cerebellar Purkinje cells. <i>Journal of Physiology</i> , 1989 , 409, 157-70	3.9	41
18	Dendrite processing in more ways than one. <i>Trends in Neurosciences</i> , 1989 , 12, 313-5	13.3	31
17	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
16	Excitatory synaptic responses in turtle cerebellar Purkinje cells. <i>Journal of Physiology</i> , 1989 , 409, 143-56	3.9	29
15	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
14	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
13	Calcium conductance and firing properties of spinal motoneurons in the turtle. <i>Journal of Physiology</i> , 1988 , 398, 591-603	3.9	131
12	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

11	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
10	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
9	Ca ⁺⁺ dependent bistability induced by serotonin in spinal motoneurons. <i>Experimental Brain Research</i> , 1985 , 57, 422-5	2.3	225
8	Intrinsic control of electroresponsive properties of transplanted mammalian brain neurons. <i>Brain Research</i> , 1985 , 335, 372-6	3.7	24
7	Intrinsic membrane properties causing a bistable behaviour of alpha-motoneurons. <i>Experimental Brain Research</i> , 1984 , 55, 391-4	2.3	232
6	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
5	Anoxia increases potassium conductance in hippocampal nerve cells. <i>Acta Physiologica Scandinavica</i> , 1982 , 115, 301-10		224
4	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
3	Pacemaker properties of mammalian Purkinje cells. <i>Acta Physiologica Scandinavica</i> , 1979 , 106, 91-2		16
2	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
1	Presynaptic inhibitory action of acetylcholine in area CA1 of the hippocampus. <i>Experimental Neurology</i> , 1978 , 62, 787-97	5.7	196