

Changfeng Tai

List of Publications by Year in descending order

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116
papers

2,735
citations

185998

28
h-index

223531

46
g-index

117
all docs

117
docs citations

117
times ranked

1164
citing authors

#	ARTICLE	IF	CITATIONS
1	Developmental and injury induced plasticity in the micturition reflex pathway. Behavioural Brain Research, 1998, 92, 127-140.	1.2	208
2	Spinal reflex control of micturition after spinal cord injury. Restorative Neurology and Neuroscience, 2006, 24, 69-78.	0.4	108
3	BLOCK OF EXTERNAL URETHRAL SPHINCTER CONTRACTION BY HIGH FREQUENCY ELECTRICAL STIMULATION OF PUDENDAL NERVE. Journal of Urology, 2004, 172, 2069-2072.	0.2	96
4	Simulation Analysis of Conduction Block in Unmyelinated Axons Induced by High-Frequency Biphasic Electrical Currents. IEEE Transactions on Biomedical Engineering, 2005, 52, 1323-1332.	2.5	95
5	Bladder inhibition or voiding induced by pudendal nerve stimulation in chronic spinal cord injured cats. Neurourology and Urodynamics, 2007, 26, 570-577.	0.8	89
6	Simulation of nerve block by high-frequency sinusoidal electrical current based on the Hodgkin-Huxley model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 415-422.	2.7	84
7	Brain Switch for Reflex Micturition Control Detected by fMRI in Rats. Journal of Neurophysiology, 2009, 102, 2719-2730.	0.9	80
8	Mechanism of Nerve Conduction Block Induced by High-Frequency Biphasic Electrical Currents. IEEE Transactions on Biomedical Engineering, 2006, 53, 2445-2454.	2.5	78
9	Pudendal-to-bladder reflex in chronic spinal-cord-injured cats. Experimental Neurology, 2006, 197, 225-234.	2.0	68
10	Prolonged poststimulation inhibition of bladder activity induced by tibial nerve stimulation in cats. American Journal of Physiology - Renal Physiology, 2011, 300, F385-F392.	1.3	66
11	Neural pathways involved in sacral neuromodulation of reflex bladder activity in cats. American Journal of Physiology - Renal Physiology, 2013, 304, F710-F717.	1.3	55
12	Irritation Induced Bladder Overactivity is Suppressed by Tibial Nerve Stimulation in Cats. Journal of Urology, 2011, 186, 326-330.	0.2	53
13	Differential role of opioid receptors in tibial nerve inhibition of nociceptive and nonnociceptive bladder reflexes in cats. American Journal of Physiology - Renal Physiology, 2012, 302, F1090-F1097.	1.3	53
14	Voiding reflex in chronic spinal cord injured cats induced by stimulating and blocking pudendal nerves. Neurourology and Urodynamics, 2007, 26, 879-886.	0.8	49
15	RESPONSE OF EXTERNAL URETHRAL SPHINCTER TO HIGH FREQUENCY BIPHASIC ELECTRICAL STIMULATION OF PUDENDAL NERVE. Journal of Urology, 2005, 174, 782-786.	0.2	44
16	Role of Opioid and Metabotropic Glutamate 5 Receptors in Pudendal Inhibition of Bladder Overactivity in Cats. Journal of Urology, 2013, 189, 1574-1579.	0.2	43
17	Selective stimulation of smaller fibers in a compound nerve trunk with single cathode by rectangular current pulses. IEEE Transactions on Biomedical Engineering, 1994, 41, 286-291.	2.5	42
18	Impact of Bioelectronic Medicine on the Neural Regulation of Pelvic Visceral Function. Bioelectronic Medicine, 2015, 2, 25-36.	1.0	41

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19	Simulation Analysis of Conduction Block in Myelinated Axons Induced by High-Frequency Biphasic Rectangular Pulses. IEEE Transactions on Biomedical Engineering, 2006, 53, 1433-1436.	2.5	39
20	Plasticity of urinary bladder reflexes evoked by stimulation of pudendal afferent nerves after chronic spinal cord injury in cats. Experimental Neurology, 2011, 228, 109-117.	2.0	39
21	Inhibitory and excitatory perigenital-to-bladder spinal reflexes in the cat. American Journal of Physiology - Renal Physiology, 2008, 294, F591-F602.	1.3	37
22	Bladder and urethral sphincter responses evoked by microstimulation of S2 sacral spinal cord in spinal cord intact and chronic spinal cord injured cats. Experimental Neurology, 2004, 190, 171-183.	2.0	36
23	Influence of naloxone on inhibitory pudendal-to-bladder reflex in cats. Experimental Neurology, 2010, 224, 282-291.	2.0	36
24	Role of spinal GABA _A receptors in pudendal inhibition of nociceptive and nonnociceptive bladder reflexes in cats. American Journal of Physiology - Renal Physiology, 2014, 306, F781-F789.	1.3	34
25	The Role of Slow Potassium Current in Nerve Conduction Block Induced by High-Frequency Biphasic Electrical Current. IEEE Transactions on Biomedical Engineering, 2009, 56, 137-146.	2.5	33
26	Involvement of metabotropic glutamate receptor 5 in pudendal inhibition of nociceptive bladder activity in cats. Journal of Physiology, 2011, 589, 5833-5843.	1.3	32
27	Somatic modulation of spinal reflex bladder activity mediated by nociceptive bladder afferent nerve fibers in cats. American Journal of Physiology - Renal Physiology, 2014, 307, F673-F679.	1.3	32
28	Suppression of bladder overactivity by activation of somatic afferent nerves in the foot. BJU International, 2011, 107, 303-309.	1.3	31
29	Analysis of nerve conduction block induced by direct current. Journal of Computational Neuroscience, 2009, 27, 201-210.	0.6	30
30	Mechanism of conduction block in amphibian myelinated axon induced by biphasic electrical current at ultra-high frequency. Journal of Computational Neuroscience, 2011, 31, 615-623.	0.6	28
31	Post-stimulation block of frog sciatic nerve by high-frequency (kHz) biphasic stimulation. Medical and Biological Engineering and Computing, 2017, 55, 585-593.	1.6	28
32	Bladder inhibition or excitation by electrical perianal stimulation in a cat model of chronic spinal cord injury. BJU International, 2009, 103, 530-536.	1.3	27
33	Involvement of 5-HT ₃ receptors in pudendal inhibition of bladder overactivity in cats. American Journal of Physiology - Renal Physiology, 2013, 305, F663-F671.	1.3	27
34	Axonal model for temperature stimulation. Journal of Computational Neuroscience, 2016, 41, 185-192.	0.6	27
35	Isometric torque about the knee joint generated by microstimulation of the cat L6 spinal cord. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1999, 7, 46-55.	1.4	25
36	Suppression of bladder reflex activity in chronic spinal cord injured cats by activation of serotonin 5-HT _{1A} receptors. Experimental Neurology, 2006, 199, 427-437.	2.0	25

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37	Influence of frequency and temperature on the mechanisms of nerve conduction block induced by high-frequency biphasic electrical current. <i>Journal of Computational Neuroscience</i> , 2008, 24, 195-206.	0.6	24
38	Poststimulation inhibition of the micturition reflex induced by tibial nerve stimulation in rats. <i>Physiological Reports</i> , 2014, 2, e00205.	0.7	24
39	Pudendal Nerve Stimulation and Block by a Wireless-Controlled Implantable Stimulator in Cats. <i>Neuromodulation</i> , 2014, 17, 490-496.	0.4	23
40	Multi-joint movement of the cat hindlimb evoked by microstimulation of the lumbosacral spinal cord. <i>Experimental Neurology</i> , 2003, 183, 620-627.	2.0	22
41	Influence of Temperature on Pudendal Nerve Block Induced by High Frequency Biphasic Electrical Current. <i>Journal of Urology</i> , 2008, 180, 1173-1178.	0.2	22
42	Role of the brain stem in tibial inhibition of the micturition reflex in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F242-F250.	1.3	22
43	Colon and anal sphincter contractions evoked by microstimulation of the sacral spinal cord in cats. <i>Brain Research</i> , 2001, 889, 38-48.	1.1	20
44	Role of μ , κ , and δ Opioid Receptors in Tibial Inhibition of Bladder Overactivity in Cats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 355, 228-234.	1.3	20
45	Impact of Bioelectronic Medicine on the Neural Regulation of Pelvic Visceral Function. <i>Bioelectronic Medicine</i> , 2015, 2015, 25-36.	1.0	20
46	Multimicroelectrode stimulation within the cat L6 spinal cord: influences of electrode combinations and stimulus interleave time on knee joint extension torque. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 2000, 8, 1-10.	1.4	19
47	Relationship between temperature and stimulation frequency in conduction block of amphibian myelinated axon. <i>Journal of Computational Neuroscience</i> , 2009, 26, 331-338.	0.6	19
48	Inhibition of bladder overactivity by a combination of tibial neuromodulation and tramadol treatment in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, F1576-F1582.	1.3	19
49	Contribution of GABAA, Glycine, and Opioid Receptors to Sacral Neuromodulation of Bladder Overactivity in Cats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 359, 436-441.	1.3	19
50	Post-Stimulation Inhibitory Effect on Reflex Bladder Activity Induced by Activation of Somatic Afferent Nerves in the Foot. <i>Journal of Urology</i> , 2012, 187, 338-343.	0.2	18
51	Contribution of opioid and metabotropic glutamate receptor mechanisms to inhibition of bladder overactivity by tibial nerve stimulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R126-R133.	0.9	18
52	Electrical Stimulation of Somatic Afferent Nerves in the Foot Increases Bladder Capacity in Healthy Human Subjects. <i>Journal of Urology</i> , 2014, 191, 1009-1013.	0.2	17
53	Propranolol, but not naloxone, enhances spinal reflex bladder activity and reduces pudendal inhibition in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R42-R49.	0.9	17
54	Sympathetic β_2 -adrenergic mechanism in pudendal inhibition of nociceptive and non-nociceptive reflex bladder activity. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F78-F84.	1.3	17

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55	Neurotransmitter Mechanisms Underlying Sacral Neuromodulation of Bladder Overactivity in Cats. <i>Neuromodulation</i> , 2017, 20, 81-87.	0.4	17
56	Effect of non-symmetric waveform on conduction block induced by high-frequency (kHz) biphasic stimulation in unmyelinated axon. <i>Journal of Computational Neuroscience</i> , 2014, 37, 377-386.	0.6	16
57	Pudendal but not tibial nerve stimulation inhibits bladder contractions induced by stimulation of pontine micturition center in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R366-R374.	0.9	16
58	Neuromodulation of bladder activity by stimulation of feline pudendal nerve using a transdermal amplitude modulated signal (TAMS). <i>Neurourology and Urodynamics</i> , 2011, 30, 1686-1694.	0.8	15
59	Conduction block of mammalian myelinated nerve by local cooling to 15-30°C after a brief heating. <i>Journal of Neurophysiology</i> , 2016, 115, 1436-1445.	0.9	15
60	Involvement of Opioid Receptors in Inhibition of Bladder Overactivity Induced by Foot Stimulation in Cats. <i>Journal of Urology</i> , 2012, 188, 1012-1016.	0.2	14
61	Sacral neuromodulation of nociceptive bladder overactivity in cats. <i>Neurourology and Urodynamics</i> , 2017, 36, 1270-1277.	0.8	13
62	Poststimulation Block of Pudendal Nerve Conduction by High-Frequency (kHz) Biphasic Stimulation in Cats. <i>Neuromodulation</i> , 2020, 23, 747-753.	0.4	13
63	Inhibition of micturition reflex by activation of somatic afferents in posterior femoral cutaneous nerve. <i>Journal of Physiology</i> , 2012, 590, 4945-4955.	1.3	12
64	Effect of methysergide on pudendal inhibition of micturition reflex in cats. <i>Experimental Neurology</i> , 2013, 247, 250-258.	2.0	12
65	Effects of Duloxetine and WAY100635 on Pudendal Inhibition of Bladder Overactivity in Cats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 349, 402-407.	1.3	12
66	Conduction block in myelinated axons induced by high-frequency (kHz) non-symmetric biphasic stimulation. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 86.	1.2	12
67	Role of glycine in nociceptive and non-nociceptive bladder reflexes and pudendal afferent inhibition of these reflexes in cats. <i>Neurourology and Urodynamics</i> , 2016, 35, 798-804.	0.8	12
68	Glutamatergic Mechanisms Involved in Bladder Overactivity and Pudendal Neuromodulation in Cats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 362, 53-58.	1.3	12
69	Restoring both continence and micturition after chronic spinal cord injury by pudendal neuromodulation. <i>Experimental Neurology</i> , 2021, 340, 113658.	2.0	12
70	Combination of Foot Stimulation and Tramadol Treatment Reverses Irritation Induced Bladder Overactivity in Cats. <i>Journal of Urology</i> , 2012, 188, 2426-2432.	0.2	11
71	Transcutaneous Electrical Nerve Stimulation of the Foot: Results of a Novel At-home, Noninvasive Treatment for Nocturnal Enuresis in Children. <i>Urology</i> , 2017, 101, 80-84.	0.5	11
72	Sacral neuromodulation blocks pudendal inhibition of reflex bladder activity in cats: insight into the efficacy of sacral neuromodulation in Fowler's syndrome. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R34-R42.	0.9	11

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73	Spinal interneuronal mechanisms underlying pudendal and tibial neuromodulation of bladder function in cats. <i>Experimental Neurology</i> , 2018, 308, 100-110.	2.0	11
74	Low pressure voiding induced by a novel implantable pudendal nerve stimulator. <i>Neurourology and Urodynamics</i> , 2019, 38, 1241-1249.	0.8	11
75	Inhibition of bladder overactivity by stimulation of feline pudendal nerve using transdermal amplitude-modulated signal (TAMS). <i>BJU International</i> , 2012, 109, 782-787.	1.3	9
76	Inhibition of bladder overactivity by duloxetine in combination with foot stimulation or WAY-100635 treatment in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1663-F1668.	1.3	9
77	Bladder underactivity after prolonged stimulation of somatic afferent axons in the tibial nerve in cats. <i>Neurourology and Urodynamics</i> , 2018, 37, 2121-2127.	0.8	9
78	Pudendal Nerve Block by Low-Frequency (1 kHz) Biphasic Electrical Stimulation. <i>Neuromodulation</i> , 2021, 24, 1012-1017.	0.4	9
79	Role of spinal metabotropic glutamate receptor 5 in pudendal inhibition of the nociceptive bladder reflex in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F832-F838.	1.3	8
80	Sex difference in the contribution of GABA _B receptors to tibial neuromodulation of bladder overactivity in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R292-R300.	0.9	8
81	An excitatory reflex from the superficial peroneal nerve to the bladder in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F1161-F1168.	1.3	8
82	Lumbosacral spinal segmental contributions to tibial and pudendal neuromodulation of bladder overactivity in cats. <i>Neurourology and Urodynamics</i> , 2017, 36, 1496-1502.	0.8	8
83	Saphenous nerve stimulation normalizes bladder underactivity induced by tibial nerve stimulation in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F247-F253.	1.3	8
84	Prolonged nonobstructive urinary retention induced by tibial nerve stimulation in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R428-R434.	0.9	8
85	Modulation of Axonal Excitability by High-Frequency Biphasic Electrical Current. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2167-2176.	2.5	7
86	Bladder inhibition by intermittent pudendal nerve stimulation in cat using transdermal amplitude-modulated signal (TAMS). <i>Neurourology and Urodynamics</i> , 2012, 31, 1181-1184.	0.8	7
87	Role of cannabinoid receptor type 1 in tibial and pudendal neuromodulation of bladder overactivity in cats. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F482-F488.	1.3	7
88	Frequency Dependent Tibial Neuromodulation of Bladder Underactivity and Overactivity in Cats. <i>Neuromodulation</i> , 2018, 21, 700-706.	0.4	7
89	Mechanisms Underlying Poststimulation Block Induced by High-Frequency Biphasic Stimulation. <i>Neuromodulation</i> , 2023, 26, 577-588.	0.4	7
90	Bladder underactivity induced by prolonged pudendal afferent activity in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R80-R87.	0.9	6

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91	Model Analysis of Post-Stimulation Effect on Axonal Conduction and Block. IEEE Transactions on Biomedical Engineering, 2021, 68, 2974-2985.	2.5	6
92	Thermal block of mammalian unmyelinated C fibers by local cooling to 15â€“25Â°C after a brief heating at 45Â°C. Journal of Neurophysiology, 2020, 123, 2173-2179.	0.9	6
93	Hindlimb movement in the cat induced by amplitude-modulated stimulation using extra-spinal electrodes. Journal of Neural Engineering, 2008, 5, 111-124.	1.8	5
94	Combination of foot stimulation and tolterodine treatment eliminates bladder overactivity in cats. Neurourology and Urodynamics, 2014, 33, 1266-1271.	0.8	5
95	Influence of urothelial or suburothelial cholinergic receptors on bladder reflexes in chronic spinal cord injured cats. Experimental Neurology, 2016, 285, 147-158.	2.0	5
96	Transcutaneous electrical stimulation of somatic afferent nerves in the foot relieved symptoms related to postoperative bladder spasms. BMC Urology, 2017, 17, 58.	0.6	5
97	Sympathetic afferents in the hypogastric nerve facilitate nociceptive bladder activity in cats. American Journal of Physiology - Renal Physiology, 2019, 316, F703-F711.	1.3	5
98	Low pressure voiding induced by stimulation and 1ÂkHz post-stimulation block of the pudendal nerves in cats. Experimental Neurology, 2021, 346, 113860.	2.0	5
99	Using the Native Afferent Nervous System to Sense Bladder Fullness: State of the Art. Current Bladder Dysfunction Reports, 2016, 11, 346-349.	0.2	4
100	Mechanisms of Action of Sacral Nerve and Peripheral Nerve Stimulation for Disorders of the Bladder and Bowel. , 2018, , 221-236.		4
101	Superficial peroneal neuromodulation of nonobstructive urinary retention in cats. Neurourology and Urodynamics, 2020, 39, 1679-1686.	0.8	3
102	High-frequency stimulation induces axonal conduction block without generating initial action potentials. Journal of Computational Neuroscience, 2021, , 1.	0.6	3
103	Sacral neuromodulation of bladder underactivity induced by prolonged pudendal afferent firing in cats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R535-R541.	0.9	3
104	Simulation Analysis of Nerve Block by High Frequency Biphasic Electrical Current Based on Frankenhaeuser-Huxley Model. , 2005, 2005, 4247-50.		2
105	Response of hypogastric afferent fibers to bladder distention or irritation in cats. Experimental Neurology, 2020, 329, 113301.	2.0	2
106	Additive Inhibition of Reflex Bladder Activity Induced by Bilateral Pudendal Neuromodulation in Cats. Frontiers in Neuroscience, 2020, 14, 80.	1.4	2
107	Superficial peroneal neuromodulation of persistent bladder underactivity induced by prolonged pudendal afferent nerve stimulation in cats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R675-R682.	0.9	2
108	Defecation Induced by Stimulation of Sacral S2 Spinal Root in Cats. American Journal of Physiology - Renal Physiology, 2021, , .	1.6	2

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109	Intracellular sodium concentration and membrane potential oscillation in axonal conduction block induced by high-frequency biphasic stimulation. <i>Journal of Neural Engineering</i> , 2022, 19, 046024.	1.8	2
110	EMG activity and knee joint torque evoked by microstimulation of the cat L6 spinal cord. , 0, , .		1
111	Superficial Peroneal Neuromodulation of Nonobstructive Urinary Retention Induced by Prolonged Pudendal Afferent Activity in Cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, , .	0.9	1
112	Temperature Effect on Nerve Conduction Block Induced by High-Frequency (kHz) Biphasic Stimulation. <i>Neuromodulation</i> , 2022, , .	0.4	1
113	Variations in knee joint extension torque produced by microstimulation of the cat L6 spinal cord. , 0, , .		0
114	Bladder and Sphincter Control after Spinal Cord Injury. <i>LUTS: Lower Urinary Tract Symptoms</i> , 2009, 1, S84.	0.6	0
115	Altered substance P expression in urinary bladder urothelium from cats diagnosed with interstitial cystitis. <i>FASEB Journal</i> , 2006, 20, A359.	0.2	0
116	Mechanism of Conduction Block in Myelinated Axons Induced by High-Frequency Biphasic Electrical Currents. , 2007, , 145-148.		0