

Terry L Powley

List of Publications by Year in descending order

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52
papers

3,686
citations

172457

29
h-index

214800

47
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56
all docs

56
docs citations

56
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	Vagal afferent innervation of the rat fundic stomach: Morphological characterization of the gastric tension receptor. <i>Journal of Comparative Neurology</i> , 1992, 319, 261-276.	1.6	269
2	The fiber composition of the abdominal vagus of the rat. <i>Anatomy and Embryology</i> , 1990, 181, 101-15.	1.5	259
3	Tension and stretch receptors in gastrointestinal smooth muscle: re-evaluating vagal mechanoreceptor electrophysiology. <i>Brain Research Reviews</i> , 2000, 34, 1-26.	9.0	229
4	Topography of efferent vagal innervation of the rat gastrointestinal tract. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1991, 260, R200-R207.	1.8	209
5	Topographic inventories of vagal afferents in gastrointestinal muscle. , 2000, 421, 302-324.		198
6	Longitudinal columnar organization within the dorsal motor nucleus represents separate branches of the abdominal vagus. <i>Brain Research</i> , 1985, 341, 269-282.	2.2	186
7	Simultaneous labeling of vagal innervation of the gut and afferent projections from the visceral forebrain with Dil injected into the dorsal vagal complex in the rat. <i>Journal of Comparative Neurology</i> , 1990, 301, 65-79.	1.6	184
8	Characterization of vagal innervation to the rat celiac, suprarenal and mesenteric ganglia. <i>Journal of the Autonomic Nervous System</i> , 1993, 42, 153-169.	1.9	151
9	Quantification of neurons in the myenteric plexus: an evaluation of putative pan-neuronal markers. <i>Journal of Neuroscience Methods</i> , 2004, 133, 99-107.	2.5	120
10	Vagal afferent innervation of the proximal gastrointestinal tract mucosa: Chemoreceptor and mechanoreceptor architecture. <i>Journal of Comparative Neurology</i> , 2011, 519, 644-660.	1.6	119
11	Vagal afferent innervation of smooth muscle in the stomach and duodenum of the mouse: Morphology and topography. <i>Journal of Comparative Neurology</i> , 2000, 428, 558-576.	1.6	118
12	Vagal preganglionic projections to the enteric nervous system characterized with Phaseolus vulgaris-leucoagglutinin. , 1997, 381, 81-100.		106
13	As the gut ages: Timetables for aging of innervation vary by organ in the Fischer 344 rat. <i>Journal of Comparative Neurology</i> , 2001, 434, 358-377.	1.6	100
14	Ultrastructural evidence for communication between intramuscular vagal mechanoreceptors and interstitial cells of Cajal in the rat fundus. <i>Neurogastroenterology and Motility</i> , 2008, 20, 69-79.	3.0	97
15	Organization and distribution of the rat subdiaphragmatic vagus and associated paraganglia. <i>Journal of Comparative Neurology</i> , 1985, 235, 182-195.	1.6	90
16	Topographic inventories of vagal afferents in gastrointestinal muscle. <i>Journal of Comparative Neurology</i> , 2000, 421, 302-24.	1.6	89
17	I. Morphology and topography of vagal afferents innervating the GI tract. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G1217-G1225.	3.4	85
18	Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: Morphological evidence for vagal efferent innervation of ganglion cells in the rat. <i>Microscopy Research and Technique</i> , 1996, 35, 80-86.	2.2	83

#	ARTICLE	IF	CITATIONS
19	Vagal innervation of intestines: afferent pathways mapped with new en bloc horseradish peroxidase adaptation. <i>Cell and Tissue Research</i> , 2007, 329, 221-230.	2.9	79
20	C-Kit mutant mice have a selective loss of vagal intramuscular mechanoreceptors in the forestomach. <i>Anatomy and Embryology</i> , 2001, 204, 11-26.	1.5	65
21	Vagal intramuscular array afferents form complexes with interstitial cells of Cajal in gastrointestinal smooth muscle: analogues of muscle spindle organs?. <i>Neuroscience</i> , 2011, 186, 188-200.	2.3	65
22	False-positive artifacts of tracer strategies distort autonomic connectivity maps. <i>Brain Research Reviews</i> , 1989, 14, 53-77.	9.0	64
23	Morphology of identified preganglionic neurons in the dorsal motor nucleus of the vagus. <i>Journal of Comparative Neurology</i> , 1992, 322, 79-98.	1.6	57
24	Alpha-synuclein immunopositive aggregates in the myenteric plexus of the aging Fischer 344 rat. <i>Experimental Neurology</i> , 2009, 220, 109-119.	4.1	56
25	Vagal nerve stimulation triggers widespread responses and alters large-scale functional connectivity in the rat brain. <i>PLoS ONE</i> , 2017, 12, e0189518.	2.5	51
26	Versatile, high-resolution anterograde labeling of vagal efferent projections with dextran amines. <i>Journal of Neuroscience Methods</i> , 2009, 178, 1-9.	2.5	47
27	Vagal Intramuscular Arrays: The Specialized Mechanoreceptor Arbors That Innervate the Smooth Muscle Layers of the Stomach Examined in the Rat. <i>Journal of Comparative Neurology</i> , 2016, 524, 713-737.	1.6	44
28	Vagus nerve stimulation promotes gastric emptying by increasing pyloric opening measured with magnetic resonance imaging. <i>Neurogastroenterology and Motility</i> , 2018, 30, e13380.	3.0	43
29	B-Afferents: A fundamental division of the nervous system mediating homeostasis?. <i>Behavioral and Brain Sciences</i> , 1990, 13, 289-300.	0.7	40
30	Vagal innervation of the stomach reassessed: brain-gut connectome uses smart terminals. <i>Annals of the New York Academy of Sciences</i> , 2019, 1454, 14-30.	3.8	40
31	Dorsal motor nucleus of the vagus neurons: A multivariate taxonomy. <i>Journal of Comparative Neurology</i> , 1999, 403, 359-377.	1.6	39
32	Effects of age on sympathetic innervation of the myenteric plexus and gastrointestinal smooth muscle of Fischer 344 rats. <i>Anatomy and Embryology</i> , 2006, 211, 673-683.	1.5	38
33	Vagal afferent innervation of the lower esophageal sphincter. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 177, 129-142.	2.8	30
34	Contrast-Enhanced Magnetic Resonance Imaging of Gastric Emptying and Motility in Rats. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2546-2554.	4.2	25
35	The identification of neuronal control pathways supplying effector tissues in the stomach. <i>Cell and Tissue Research</i> , 2020, 382, 433-445.	2.9	25
36	Gastric stimulation drives fast BOLD responses of neural origin. <i>NeuroImage</i> , 2019, 197, 200-211.	4.2	23

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37	Individual sympathetic postganglionic neurons coinnervate myenteric ganglia and smooth muscle layers in the gastrointestinal tract of the rat. <i>Journal of Comparative Neurology</i> , 2016, 524, 2577-2603.	1.6	20
38	Brain-gut communication: vagovagal reflexes interconnect the two "brains". <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G576-G587.	3.4	20
39	Vagal sensory innervation of the gastric sling muscle and antral wall: implications for gastroesophageal reflux disease?. <i>Neurogastroenterology and Motility</i> , 2012, 24, e526-37.	3.0	17
40	Acute effects of vagus nerve stimulation parameters on gastric motility assessed with magnetic resonance imaging. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13853.	3.0	17
41	Dorsal motor nucleus of the vagus neurons: a multivariate taxonomy. <i>Journal of Comparative Neurology</i> , 1999, 403, 359-77.	1.6	15
42	Organization of vagal afferents in pylorus: Mechanoreceptors arrayed for high sensitivity and fine spatial resolution?. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2014, 183, 36-48.	2.8	14
43	Sympathetic axonopathies and hyperinnervation in the small intestine smooth muscle of aged Fischer 344 rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 179, 108-121.	2.8	12
44	Architecture of vagal motor units controlling striated muscle of esophagus: Peripheral elements patterning peristalsis?. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 179, 90-98.	2.8	10
45	An emerging method to noninvasively measure and identify vagal response markers to enable bioelectronic control of gastroparesis symptoms with gastric electrical stimulation. <i>Journal of Neuroscience Methods</i> , 2020, 336, 108631.	2.5	8
46	Stomach serosal arteries distinguish gastric regions of the rat. <i>Journal of Anatomy</i> , 2021, 239, 903-912.	1.5	8
47	Stomach region stimulated determines effects on duodenal motility in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R331-R341.	1.8	6
48	Automatic assessment of human gastric motility and emptying from dynamic 3D magnetic resonance imaging. <i>Neurogastroenterology and Motility</i> , 2022, 34, e14239.	3.0	6
49	Gastric neurons in the nucleus tractus solitarius are selective to the orientation of gastric electrical stimulation. <i>Journal of Neural Engineering</i> , 2021, 18, 056066.	3.5	6
50	Ontogeny, form, function, and prediction. <i>Behavioral and Brain Sciences</i> , 1990, 13, 318-331.	0.7	0
51	Vagal Intramuscular Arrays: The Specialized Mechanoreceptor Arbors That Innervate the Smooth Muscle Layers of the Stomach Examined in the Rat. <i>Journal of Comparative Neurology</i> , 2016, 524, Spc1-Spc1.	1.6	0
52	In Vivo Evaluation of Fractal Microelectrodes Towards a More Targeted and Energy-Efficient Vagus Nerve Stimulation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0