

# Bin Feng

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,741  
citations

279487

23  
h-index

301761

39  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ptychographic sensor for large-scale lensless microbial monitoring with high spatiotemporal resolution. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113699.	5.3	17
2	Psychosocial and Sensory Factors Contribute to Self-Reported Pain and Quality of Life in Young Adults with Irritable Bowel Syndrome. <i>Pain Management Nursing</i> , 2022, 23, 646-654.	0.4	8
3	Predicting the micromechanics of embedded nerve fibers using a novel three-layered model of mouse distal colon and rectum. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 127, 105083.	1.5	3
4	Blood-Coated Sensor for High-Throughput Ptychographic Cytometry on a Blu-ray Disc. <i>ACS Sensors</i> , 2022, 7, 1058-1067.	4.0	19
5	The effect of self-management online modules plus nurse-led support on pain and quality of life among young adults with irritable bowel syndrome: A randomized controlled trial. <i>International Journal of Nursing Studies</i> , 2022, 132, 104278.	2.5	4
6	The heterogeneous morphology of networked collagen in distal colon and rectum of mice quantified via nonlinear microscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104116.	1.5	14
7	Computational Modeling of Mouse Colorectum Capturing Longitudinal and Through-thickness Biomechanical Heterogeneity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104127.	1.5	12
8	High-Throughput Functional Characterization of Visceral Afferents by Optical Recordings From Thoracolumbar and Lumbosacral Dorsal Root Ganglia. <i>Frontiers in Neuroscience</i> , 2021, 15, 657361.	1.4	2
9	Optical clearing reveals TNBS-induced morphological changes of VGLUT2-positive nerve fibers in mouse colorectum. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G644-G657.	1.6	7
10	Blocking peripheral drive from colorectal afferents by subkilohertz dorsal root ganglion stimulation. <i>Pain</i> , 2021, Publish Ahead of Print, .	2.0	2
11	Targeting Two-Pore-Domain Potassium Channels by Mechanical Stretch Instantaneously Modulates Action Potential Transmission in Mouse Sciatic Nerves. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3558-3566.	1.7	2
12	Resolution-Enhanced Parallel Coded Ptychography for High-Throughput Optical Imaging. <i>ACS Photonics</i> , 2021, 8, 3261-3271.	3.2	36
13	Optofluidic ptychography on a chip. <i>Lab on A Chip</i> , 2021, 21, 4549-4556.	3.1	12
14	Visceral pain from colon and rectum: the mechanotransduction and biomechanics. <i>Journal of Neural Transmission</i> , 2020, 127, 415-429.	1.4	30
15	A multi-layered computational model for wrinkling of human skin predicts aging effects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103552.	1.5	19
16	Optimal Multichannel Artifact Prediction and Removal for Neural Stimulation and Brain Machine Interfaces. <i>Frontiers in Neuroscience</i> , 2020, 14, 709.	1.4	7
17	Using electrodermal activity to validate multilevel pain stimulation in healthy volunteers evoked by thermal grills. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R366-R375.	0.9	27
18	The Macro- and Micro-Mechanics of the Colon and Rectum II: Theoretical and Computational Methods. <i>Bioengineering</i> , 2020, 7, 152.	1.6	8

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19	The Macro- and Micro-Mechanics of the Colon and Rectum I: Experimental Evidence. <i>Bioengineering</i> , 2020, 7, 130.	1.6	24
20	Extracellular single-unit recordings from peripheral nerve axons in vitro by a novel multichannel microelectrode array. <i>Sensors and Actuators B: Chemical</i> , 2020, 315, 128111.	4.0	12
21	A multi-layered model of human skin elucidates mechanisms of wrinkling in the forehead. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103694.	1.5	21
22	New Insights on Expression and Function of Mu and Delta Opioid Receptors in Mouse Gastrointestinal Tract. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 9, 553-554.	2.3	2
23	SPARC: Determine the topology and function of DRG neurons innervating mouse colon and rectum.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
24	Load-bearing function of the colorectal submucosa and its relevance to visceral nociception elicited by mechanical stretch. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, G349-G358.	1.6	24
25	Optical recording reveals topological distribution of functionally classified colorectal afferent neurons in intact lumbosacral <sc>DRG</sc>. <i>Physiological Reports</i> , 2019, 7, e14097.	0.7	15
26	A Review on Ultrasonic Neuromodulation of the Peripheral Nervous System: Enhanced or Suppressed Activities?. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1637.	1.3	20
27	Differential biomechanical properties of mouse distal colon and rectum innervated by the splanchnic and pelvic afferents. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, G473-G481.	1.6	25
28	<i>In vitro</i> single-unit recordings reveal increased peripheral nerve conduction velocity by focused pulsed ultrasound. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045004.	0.6	18
29	Optogenetic Activation of Colon Epithelium of the Mouse Produces High-Frequency Bursting in Extrinsic Colon Afferents and Engages Visceromotor Responses. <i>Journal of Neuroscience</i> , 2018, 38, 5788-5798.	1.7	30
30	A Novel System to Measure Infants's™ Nutritive Sucking During Breastfeeding: the Breastfeeding Diagnostic Device (BDD). <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-8.	2.2	4
31	A novel role for follistatin in hypersensitivity following cystitis. <i>Neurourology and Urodynamics</i> , 2017, 36, 286-292.	0.8	0
32	<i>In vitro</i> multichannel single-unit recordings of action potentials from the mouse sciatic nerve. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 045020.	0.6	13
33	Pharmacological Approach for Managing Pain in Irritable Bowel Syndrome: A Review Article. <i>Anesthesiology and Pain Medicine</i> , 2017, 7, e42747.	0.5	56
34	Roles of isolectin B4-binding afferents in colorectal mechanical nociception. <i>Pain</i> , 2016, 157, 348-354.	2.0	11
35	Chronic Prostatitis Induces Bladder Hypersensitivity and Sensitizes Bladder Afferents in the Mouse. <i>Journal of Urology</i> , 2016, 196, 892-901.	0.2	31
36	Optogenetic activation of mechanically insensitive afferents in mouse colorectum reveals chemosensitivity. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G790-G798.	1.6	19

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37	&lt;em&gt;In vitro&lt;/em&gt; Functional Characterization of Mouse Colorectal Afferent Endings. Journal of Visualized Experiments, 2015, , 52310.	0.2	20
38	Experimental and computational evidence for an essential role of Na<sub>V</sub>1.6 in spike initiation at stretch-sensitive colorectal afferent endings. Journal of Neurophysiology, 2015, 113, 2618-2634.	0.9	46
39	Novel method to assess axonal excitability using channelrhodopsin-based photoactivation. Journal of Neurophysiology, 2015, 113, 2242-2249.	0.9	18
40	Mo2044 Studying Mechanically-Insensitive Colorectal Afferents via Optogenetic Activation of Sensory Nerve Terminals. Gastroenterology, 2015, 148, S-778.	0.6	1
41	Activation of Guanylate Cyclase-C Attenuates Stretch Responses and Sensitization of Mouse Colorectal Afferents. Journal of Neuroscience, 2013, 33, 9831-9839.	1.7	41
42	Combined genetic and pharmacological inhibition of TRPV1 and P2X3 attenuates colorectal hypersensitivity and afferent sensitization. American Journal of Physiology - Renal Physiology, 2013, 305, G638-G648.	1.6	31
43	Sensitization of Visceral Nociceptors. , 2013, , 3464-3468.		1
44	Visceral Mechanoreceptors. , 2013, , 4170-4174.		0
45	Luminal hypertonicity and acidity modulate colorectal afferents and induce persistent visceral hypersensitivity. American Journal of Physiology - Renal Physiology, 2012, 303, G802-G809.	1.6	15
46	Altered colorectal afferent function associated with TNBS-induced visceral hypersensitivity in mice. American Journal of Physiology - Renal Physiology, 2012, 303, G817-G824.	1.6	53
47	Long-term sensitization of mechanosensitive and -insensitive afferents in mice with persistent colorectal hypersensitivity. American Journal of Physiology - Renal Physiology, 2012, 302, G676-G683.	1.6	62
48	Irritable Bowel Syndrome: Methods, Mechanisms, and Pathophysiology. Neural and neuro-immune mechanisms of visceral hypersensitivity in irritable bowel syndrome. American Journal of Physiology - Renal Physiology, 2012, 302, G1085-G1098.	1.6	115
49	Mo1846 Cyclic Guanylate Monophosphate (cGMP) Attenuates Responses and Sensitization of Mouse Colorectal Afferents. Gastroenterology, 2012, 142, S-698.	0.6	3
50	Characterization of silent afferents in the pelvic and splanchnic innervations of the mouse colon. American Journal of Physiology - Renal Physiology, 2011, 300, G170-G180.	1.6	94
51	Differential roles of stretch-sensitive pelvic nerve afferents innervating mouse distal colon and rectum. American Journal of Physiology - Renal Physiology, 2010, 298, G402-G409.	1.6	56
52	S1815 Mechanically Insensitive Afferents Innervating the Mouse Stomach. Gastroenterology, 2010, 138, S-280.	0.6	0
53	Cystitis increases colorectal afferent sensitivity in the mouse. American Journal of Physiology - Renal Physiology, 2009, 297, G1250-G1258.	1.6	33
54	Peripheral and Central P2X3 Receptor Contributions to Colon Mechanosensitivity and Hypersensitivity in the Mouse. Gastroenterology, 2009, 137, 2096-2104.	0.6	61

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55	W1713 Silent Afferents in the Pelvic Nerve Innervation of the Mouse Colon. <i>Gastroenterology</i> , 2009, 136, A-723.	0.6	1
56	The KCNQ/M <sup>+</sup> current modulates arterial baroreceptor function at the sensory terminal in rats. <i>Journal of Physiology</i> , 2008, 586, 795-802.	1.3	42
57	Electrophysiological and neuroanatomical evidence of sexual dimorphism in aortic baroreceptor and vagal afferents in rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1301-R1310.	0.9	50
58	Theoretical and electrophysiological evidence for axial loading about aortic baroreceptor nerve terminals in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3659-H3672.	1.5	13
59	Unmyelinated visceral afferents exhibit frequency dependent action potential broadening while myelinated visceral afferents do not. <i>Neuroscience Letters</i> , 2007, 421, 62-66.	1.0	29
60	Acoustic structural coupled finite element analysis for sound transmission in human ear Pressure distributions. <i>Medical Engineering and Physics</i> , 2006, 28, 395-404.	0.8	124
61	Three-Dimensional Finite Element Modeling of Human Ear for Sound Transmission. <i>Annals of Biomedical Engineering</i> , 2004, 32, 847-859.	1.3	228
62	Lumped parametric model of the human ear for sound transmission. <i>Biomechanics and Modeling in Mechanobiology</i> , 2004, 3, 33-47.	1.4	49