

# Donghua Liao

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

615  
citations

623574

14  
h-index

677027

22  
g-index

53  
all docs

53  
docs citations

53  
times ranked

578  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stomach stress and strain depend on location, direction and the layered structure. <i>Journal of Biomechanics</i> , 2008, 41, 3441-3447.	0.9	53
2	Functional lumen imaging of the gastrointestinal tract. <i>Journal of Gastroenterology</i> , 2015, 50, 1005-1016.	2.3	37
3	3d Mechanical properties of the partially obstructed guinea pig small intestine. <i>Journal of Biomechanics</i> , 2010, 43, 2079-2086.	0.9	33
4	Fecobionics: Integrating Anorectal Function Measurements. <i>Clinical Gastroenterology and Hepatology</i> , 2018, 16, 981-983.	2.4	30
5	Fecobionics: A Novel Bionics Device for Studying Defecation. <i>Annals of Biomedical Engineering</i> , 2019, 47, 576-589.	1.3	28
6	Cervical Stiffness Evaluated In Vivo by Endoflip in Pregnant Women. <i>PLoS ONE</i> , 2014, 9, e91121.	1.1	26
7	Three-dimensional surface model analysis in the gastrointestinal tract. <i>World Journal of Gastroenterology</i> , 2006, 12, 2870.	1.4	25
8	&lt;p&gt;Risk of cancer in patients with constipation&lt;/p&gt;. <i>Clinical Epidemiology</i> , 2019, Volume 11, 299-310.	1.5	24
9	Mechanical Characteristics of Distension-Evoked Peristaltic Contractions in the Esophagus of Systemic Sclerosis Patients. <i>Digestive Diseases and Sciences</i> , 2011, 56, 3559-3568.	1.1	22
10	Identification of biomechanical properties in vivo in human uterine cervix. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 27-37.	1.5	22
11	Regional surface geometry of the rat stomach based on three-dimensional curvature analysis. <i>Physics in Medicine and Biology</i> , 2005, 50, 231-246.	1.6	21
12	Three-dimensional geometry analysis of the stomach in type II diabetic GK rats. <i>Diabetes Research and Clinical Practice</i> , 2006, 71, 1-13.	1.1	21
13	Tissue softening of guinea pig oesophagus tested by the tri-axial test machine. <i>Journal of Biomechanics</i> , 2009, 42, 804-810.	0.9	21
14	Biomechanical functional and sensory modelling of the gastrointestinal tract. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3281-3299.	1.6	17
15	Anal sphincter dysfunction in patients treated with primary radiotherapy for anal cancer: a study with the functional lumen imaging probe. <i>Acta Oncol&amp;sup3;gica</i> , 2018, 57, 465-472.	0.8	15
16	The impact of naloxegol on anal sphincter function - Using a human experimental model of opioid-induced bowel dysfunction. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 117, 187-192.	1.9	15
17	Quantitative Differences Between Primary and Secondary Peristaltic Contractions of the Esophagus. <i>Digestive Diseases and Sciences</i> , 2014, 59, 1810-1816.	1.1	14
18	Theoretical Tools to Analyze Anorectal Mechanophysiological Data Generated by the Fecobionics Device. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	13

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19	Mechanophysiological analysis of anorectal function using simulated feces in human subjects. <i>Journal of Advanced Research</i> , 2021, 28, 245-254.	4.4	12
20	The oesophageal zero-stress state and mucosal folding from a GIOME perspective. <i>World Journal of Gastroenterology</i> , 2007, 13, 1347.	1.4	12
21	An image-based method to quantify biomechanical properties of the rectum in radiotherapy of prostate cancer. <i>Acta Oncologica</i> , 2015, 54, 1335-1342.	0.8	11
22	Prolonged-Release Oxycodone/Naloxone Improves Anal Sphincter Relaxation Compared to Oxycodone Plus Macrogol 3350. <i>Digestive Diseases and Sciences</i> , 2017, 62, 3156-3166.	1.1	11
23	Viscoelastic properties of isolated rat colon smooth muscle cells. <i>Cell Biology International</i> , 2006, 30, 854-858.	1.4	10
24	The geometric configuration and morphometry of the rabbit oesophagus during luminal pressure loading. <i>Physiological Measurement</i> , 2006, 27, 703-711.	1.2	10
25	A novel 3D shape context method based strain analysis on a rat stomach model. <i>Journal of Biomechanics</i> , 2012, 45, 1566-1573.	0.9	10
26	Ravages of Diabetes on Gastrointestinal Sensory-Motor Function: Implications for Pathophysiology and Treatment. <i>Current Gastroenterology Reports</i> , 2016, 18, 6.	1.1	8
27	Intestinal Mechanomorphological Remodeling Induced by Long-Term Low-Fiber Diet in Rabbits. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2867-2878.	1.3	8
28	Long-term anorectal function in rectal cancer patients treated with chemoradiotherapy and endorectal brachytherapy. <i>Colorectal Disease</i> , 2021, 23, 2311-2319.	0.7	8
29	Bowel stiffness associated with histopathologic scoring of stenosis in patients with Crohn's disease. <i>Acta Biomaterialia</i> , 2021, 130, 332-342.	4.1	8
30	Evidence for stress-dependent mechanoreceptors linking intestinal biomechanics and sensory signal transduction. <i>Experimental Physiology</i> , 2013, 98, 123-133.	0.9	7
31	The Esophagiome: concept, status, and future perspectives. <i>Annals of the New York Academy of Sciences</i> , 2016, 1380, 6-18.	1.8	7
32	Interdependency between mechanical parameters and afferent nerve discharge in remodeled diabetic Goto-Kakizaki rat intestine. <i>Clinical and Experimental Gastroenterology</i> , 2017, Volume 10, 303-314.	1.0	6
33	Interdependency of stress relaxation and afferent nerve discharge in rat small intestine. <i>Journal of Biomechanics</i> , 2012, 45, 1574-1579.	0.9	5
34	3D reconstruction and fiber quantification in the pig lower esophageal sphincter region using in vitro diffusion tensor imaging. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 025002.	0.6	5
35	Axial Movements and Length Changes of the Human Lower Esophageal Sphincter During Respiration and Distension-induced Secondary Peristalsis Using Functional Luminal Imaging Probe. <i>Journal of Neurogastroenterology and Motility</i> , 2018, 24, 255-267.	0.8	5
36	Mechanical analysis of intestinal contractility in a neonatal maternal deprivation irritable bowel syndrome rat model. <i>Journal of Biomechanics</i> , 2019, 93, 42-51.	0.9	5

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37	The antroduodenal transition time is prolonged in adults with type 1 diabetes. <i>Neurogastroenterology and Motility</i> , 2021, 33, e14144.	1.6	5
38	Esophageal stress softening recovery is altered in STZ-induced diabetic rats. <i>Journal of Biomechanics</i> , 2019, 92, 126-136.	0.9	4
39	Reversible stress softening in layered rat esophagus in vitro after potassium chloride activation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1065-1075.	1.4	3
40	Refeeding reverses fasting-induced remodeling of afferent nerve activity in rat small intestine. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1915-1926.	1.4	3
41	Pressure overload changes mesenteric afferent nerve responses in a stress-dependent way in a fasting rat model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1741-1753.	1.4	3
42	Validation of Shape Context Based Image Registration Method Using Digital Image Correlation Measurement on a Rat Stomach. <i>Journal of Computational Medicine</i> , 2014, 2014, 1-7.	0.3	2
43	The Turning Point for Morphomechanical Remodeling During Complete Intestinal Obstruction in Rats Occurs After 12h. <i>Annals of Biomedical Engineering</i> , 2018, 46, 705-716.	1.3	2
44	Stress-strain analysis of duodenal contractility in response to flow and ramp distension in rabbits fed low-fiber diet. <i>Neurogastroenterology and Motility</i> , 2019, 31, e13476.	1.6	2
45	Modeling and measurements of the mechanophysiological function of the gastrointestinal organs. <i>Physiological Measurement</i> , 2020, , .	1.2	2
46	Gastrocolic Reflex Is Delayed and Diminished in Adults with Type 1 Diabetes. <i>Digestive Diseases and Sciences</i> , 2022, 67, 4827-4833.	1.1	2
47	Opening angle and residual strain in a three-layered model of pig esophagus. <i>FASEB Journal</i> , 2007, 21, A1232.	0.2	1
48	Contractility patterns and gastrointestinal movements monitored by a combined magnetic tracking and motility testing unit. <i>Neurogastroenterology and Motility</i> , 2022, 34, e14306.	1.6	1
49	Sacral Nerve Modulation Has No Effect on the Postprandial Response in Irritable Bowel Syndrome. <i>Clinical and Experimental Gastroenterology</i> , 2020, Volume 13, 235-244.	1.0	0
50	Simulations of Myenteric Neuron Dynamics in Response to Mechanical Stretch. <i>Computational Intelligence and Neuroscience</i> , 2020, 2020, 1-10.	1.1	0
51	Effect of partial obstruction on the contraction of guinea pig jejunum. <i>FASEB Journal</i> , 2007, 21, A1326.	0.2	0