Ravinder K Mittal

List of Publications by Year
in descending order

90 papers	3,533 citations	172457 29 h-index	144013 57 g-index
93 all docs	93 docs citations	93 times ranked	2057 citing authors

#	Article	IF	Citations
1	Rhythmic contraction but arrhythmic distension of esophageal peristaltic reflex in patients with dysphagia. PLoS ONE, 2022, 17, e0262948.	2.5	5
2	Relationship between dysphagia, lower esophageal sphincter relaxation, and esophagogastric junction distensibility. Neurogastroenterology and Motility, 2022, , e14319.	3.0	2
3	Anorectal Anatomy and Function. Gastroenterology Clinics of North America, 2022, 51, 1-23.	2.2	1
4	Abnormal Esophageal Distension Profiles in Patients With Functional Dysphagia: A Possible Mechanism of Dysphagia. Gastroenterology, 2021, 160, 1847-1849.e2.	1.3	7
5	Chicago Classification update (v4.0): Technical review of highâ€resolution manometry metrics for EGJ barrier function. Neurogastroenterology and Motility, 2021, 33, e14113.	3.0	20
6	Distensionâ€contraction profile of peristalsis in patients with nutcracker esophagus. Neurogastroenterology and Motility, 2021, 33, e14138.	3.0	4
7	Do resistance exercises during biofeedback therapy enhance the anal sphincter and pelvic floor muscles in anal incontinence?. Neurogastroenterology and Motility, 2021, , e14212.	3.0	1
8	Sliding Hiatus Hernia: A Two-Step Pressure Pump of Gastroesophageal Reflux. Gastroenterology, 2021, 161, 339-341.e1.	1.3	3
9	Montreal, Rome, and Lyon Consensus: Will They Resolve the Conundrum of Gastroesophageal Reflux Disease. Gastroenterology, 2021, 161, 1776-1779.	1.3	3
10	Esophageal motility disorders on highâ€resolution manometry: Chicago classification version 4.0^{Â©}. Neurogastroenterology and Motility, 2021, 33, e14058.	3.0	468
11	Bolus flow and biomechanical properties of the esophageal wall during primary esophageal peristalsis: Effects of bolus viscosity and posture. Neurogastroenterology and Motility, 2021, , e14281.	3.0	5
12	Novel gel bolus to improve impedanceâ€based measurements of esophageal crossâ€sectional area during primary peristalsis. Neurogastroenterology and Motility, 2021, 33, e14071.	3.0	2
13	Botox injection into the lower esophageal sphincter induces hiatal paralysis and gastroesophageal reflux. American Journal of Physiology - Renal Physiology, 2020, 318, G77-G83.	3.4	12
14	The international anorectal physiology working group (IAPWG) recommendations: Standardized testing protocol and the London classification for disorders of anorectal function. Neurogastroenterology and Motility, 2020, 32, e13679.	3.0	184
15	Morphology of the Esophageal Hiatus: Is It Different in 3 Types of Hiatus Hernias?. Journal of Neurogastroenterology and Motility, 2020, 26, 51-60.	2.4	15
16	Loop analysis of the anal sphincter complex in fecal incontinent patients using functional luminal imaging probe. American Journal of Physiology - Renal Physiology, 2020, 318, G66-G76.	3.4	8
17	Esophageal Motility Disorders and Gastroesophageal Reflux Disease. New England Journal of Medicine, 2020, 383, 1961-1972.	27.0	62
18	Relationship between distension-contraction waveforms during esophageal peristalsis: effect of bolus volume, viscosity, and posture. American Journal of Physiology - Renal Physiology, 2020, 319, G454-G461.	3.4	9

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19	413 DISTENSION CONTRACTION PLOTS OF ESOPHAGEAL PERISTALSIS GENERATED USING AN AUTOMATED COMPUTER PROGRAM. Gastroenterology, 2020, 158, S-79-S-80.	1.3	3
20	Three-Dimensional Pressure Profile of the Lower Esophageal Sphincter and Crural Diaphragm in Patients with Achalasia Esophagus. Gastroenterology, 2020, 159, 864-872.e1.	1.3	8
21	Highâ€frequency ultrasound imaging of the anal sphincter muscles in normal subjects and patients with fecal incontinence. Neurogastroenterology and Motility, 2019, 31, e13537.	3.0	11
22	Topographical plots of esophageal distension and contraction: effects of posture on esophageal peristalsis and bolus transport. American Journal of Physiology - Renal Physiology, 2019, 316, G519-G526.	3.4	15
23	Na + /Ca 2+ exchanger 1 is a key mechanosensitive molecule of the esophageal myenteric neurons. Acta Physiologica, 2019, 225, e13223.	3.8	4
24	Is the Lower Esophageal Sphincter Tone Related to a Gas?. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 239-240.	4.5	0
25	Connectivity of the Superficial Muscles of the Human Perineum: A Diffusion Tensor Imaging-Based Global Tractography Study. Scientific Reports, 2018, 8, 17867.	3.3	16
26	Measuring length-tension function of the anal sphincters and puborectalis muscle using the functional luminal imaging probe. American Journal of Physiology - Renal Physiology, 2018, 315, G781-G787.	3.4	7
27	Endoflip vs highâ€definition manometry in the assessment of fecal incontinence: A dataâ€driven unsupervised comparison. Neurogastroenterology and Motility, 2018, 30, e13462.	3.0	11
28	Genesis of Esophageal Pressurization and Bolus Flow Patterns in Patients With Achalasia Esophagus. Gastroenterology, 2018, 155, 327-336.	1.3	25
29	Cholecystokinin induces esophageal longitudinal muscle contraction and transient lower esophageal sphincter relaxation in healthy humans. American Journal of Physiology - Renal Physiology, 2018, 315, G734-G742.	3.4	12
30	Wnt-Î² Catenin Signaling Pathway: A Major Player in the Injury Induced Fibrosis and Dysfunction of the External Anal Sphincter. Scientific Reports, 2017, 7, 963.	3.3	10
31	Functional morphology of the lower esophageal sphincter and crural diaphragm determined by three-dimensional high-resolution esophago-gastric junction pressure profile and CT imaging. American Journal of Physiology - Renal Physiology, 2017, 313, G212-G219.	3.4	36
32	Three-Dimensional Myoarchitecture of the Lower Esophageal Sphincter and Esophageal Hiatus Using Optical Sectioning Microscopy. Scientific Reports, 2017, 7, 13188.	3.3	32
33	Age-related external anal sphincter muscle dysfunction and fibrosis: possible role of Wnt/Î²-catenin signaling pathways. American Journal of Physiology - Renal Physiology, 2017, 313, G581-G588.	3.4	20
34	Visualizing the enteric nervous system using genetically engineered double reporter mice: Comparison with immunofluorescence. PLoS ONE, 2017, 12, e0171239.	2.5	11
35	Esophageal Submucosal Injection of Capsaicin but Not Acid Induces Symptoms in Normal Subjects. Journal of Neurogastroenterology and Motility, 2016, 22, 436-443.	2.4	9
36	Regulation and dysregulation of esophageal peristalsis by the integrated function of circular and longitudinal muscle layers in health and disease. American Journal of Physiology - Renal Physiology, 2016, 311, G431-G443.	3.4	40

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37	Esophageal contractions in type 3 achalasia esophagus: simultaneous or peristaltic?. American Journal of Physiology - Renal Physiology, 2016, 310, G689-G695.	3.4	21
38	A Predictive Model to Identify Patients With Fecal Incontinence Based on High-Definition Anorectal Manometry. Clinical Gastroenterology and Hepatology, 2016, 14, 1788-1796.e2.	4.4	14
39	Low esophageal mucosal blood flow in patients with nutcracker esophagus. American Journal of Physiology - Renal Physiology, 2016, 310, G410-G416.	3.4	9
40	Inhibitory motor neurons of the esophageal myenteric plexus are mechanosensitive. American Journal of Physiology - Cell Physiology, 2015, 308, C405-C413.	4.6	25
41	Circular and longitudinal muscles shortening indicates sliding patterns during peristalsis and transient lower esophageal sphincter relaxation. American Journal of Physiology - Renal Physiology, 2015, 309, G360-G367.	3.4	9
42	Length Tension Function of Puborectalis Muscle: Implications for the Treatment of Fecal Incontinence and Pelvic Floor Disorders. Journal of Neurogastroenterology and Motility, 2014, 20, 539-546.	2.4	11
43	Esophageal Function Testing. Gastrointestinal Endoscopy Clinics of North America, 2014, 24, 667-685.	1.4	2
44	Purse-string morphology of external anal sphincter revealed by novel imaging techniques. American Journal of Physiology - Renal Physiology, 2014, 306, G505-G514.	3.4	29
45	Architecture of vagal motor units controlling striated muscle of esophagus: Peripheral elements patterning peristalsis?. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 90-98.	2.8	10
46	Esophageal Sphincter Device/Antireflux Surgery: Who Needs It?. Gastroenterology, 2013, 145, 679-681.	1.3	0
47	Longitudinal muscle of the esophagus. Current Opinion in Gastroenterology, 2013, 29, 1.	2.3	26
48	Anatomical Disruption and Length-Tension Dysfunction of Anal Sphincter Complex Muscles in Women with Fecal Incontinence. Diseases of the Colon and Rectum, 2013, 56, 1282-1289.	1.3	20
49	Longitudinal Muscle Dysfunction in Achalasia Esophagus and Its Relevance. Journal of Neurogastroenterology and Motility, 2013, 19, 126-136.	2.4	31
50	Role of Puborectalis Muscle in the Genesis of Urethral Pressure. Journal of Urology, 2012, 188, 1382-1388.	0.4	22
51	Antireflux Action of Nissen Fundoplication and Stretch-Sensitive Mechanism of Lower Esophageal Sphincter Relaxation. Gastroenterology, 2011, 140, 442-449.	1.3	29
52	Sustained Improvement in the Anal Sphincter Function Following Surgical Plication of Rabbit External Anal Sphincter Muscle. Diseases of the Colon and Rectum, 2011, 54, 1373-1380.	1.3	16
53	Effect of esophageal contraction on esophageal wall blood perfusion. American Journal of Physiology - Renal Physiology, 2011, 301, G1093-G1098.	3.4	19
54	Achalasia, Alcohol-Stasis, and Acute Necrotizing Esophagitis: Connecting the Dots. Digestive Diseases and Sciences, 2011, 56, 612-614.	2.3	5

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55	Anal sphincter complex muscles defects and dysfunction in asymptomatic parous women. International Urogynecology Journal, 2011, 22, 1143-1150.	1.4	4
56	Dynamic assessment of the vaginal high-pressure zone using high-definition manometery, 3-dimensional ultrasound, and magnetic resonance imaging of the pelvic floor muscles. American Journal of Obstetrics and Gynecology, 2010, 203, 172.e1-172.e8.	1.3	46
57	A Unique Esophageal Motor Pattern That Involves Longitudinal Muscles Is Responsible for Emptying in Achalasia Esophagus. Gastroenterology, 2010, 139, 102-111.	1.3	70
58	Mechanism of stretch-activated excitatory and inhibitory responses in the lower esophageal sphincter. American Journal of Physiology - Renal Physiology, 2009, 297, G397-G405.	3.4	43
59	Transperineal Three-Dimensional Ultrasound Imaging for Detection of Anatomic Defects in the Anal Sphincter Complex Muscles. Clinical Gastroenterology and Hepatology, 2009, 7, 205-211.	4.4	71
60	Closure Mechanism of the Anal Canal in Women: Assessed by Three-Dimensional Ultrasound Imaging. Diseases of the Colon and Rectum, 2008, 51, 932-939.	1.3	22
61	Pelvic Floor Anatomy and Applied Physiology. Gastroenterology Clinics of North America, 2008, 37, 493-509.	2.2	125
62	Prevalence of Increased Esophageal Muscle Thickness in Patients With Esophageal Symptoms. American Journal of Gastroenterology, 2007, 102, 137-145.	0.4	84
63	Distension during gastroesophageal reflux: effects of acid inhibition and correlation with symptoms. American Journal of Physiology - Renal Physiology, 2007, 293, G469-G474.	3.4	26
64	Axial stretch: a novel mechanism of the lower esophageal sphincter relaxation. American Journal of Physiology - Renal Physiology, 2007, 292, G329-G334.	3.4	39
65	Vaginal high-pressure zone assessed by dynamic 3-dimensional ultrasound images of the pelvic floor. American Journal of Obstetrics and Gynecology, 2007, 197, 52.e1-52.e7.	1.3	75
66	Esophageal motor disorders: recent advances. Current Opinion in Gastroenterology, 2006, 22, 417-422.	2.3	32
67	Synchrony between circular and longitudinal muscle contractions during peristalsis in normal subjects. American Journal of Physiology - Renal Physiology, 2006, 290, G431-G438.	3.4	73
68	Motor and Sensory Function of the Esophagus. Journal of Clinical Gastroenterology, 2005, 39, S42-S48.	2.2	24
69	Evidence for the Innervation of Pelvic Floor Muscles by the Pudendal Nerve. Obstetrics and Gynecology, 2005, 106, 774-781.	2.4	75
70	Sensory and motor function of the esophagus: Lessons from ultrasound imaging. Gastroenterology, 2005, 128, 487-497.	1.3	102
71	Derived M-mode Ultrasonography: A Valuable Imaging Modality for the Visual Assessment of Esophageal Motility. Gastrointestinal Endoscopy, 2004, 59, P220.	1.0	4
72	Effect of atropine on the biomechanical properties of the oesophageal wall in humans. Journal of Physiology, 2003, 547, 621-628.	2.9	23

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73	Measuring esophageal distention by high-frequency intraluminal ultrasound probe. American Journal of Medicine, 2003, 115, 130-136.	1.5	15
74	Hypertrophy of the muscularis propria of the lower esophageal sphincter and the body of the esophagus in patients with primary motility disorders of the esophagus. American Journal of Gastroenterology, 2003, 98, 1705-1712.	0.4	74
75	Measuring esophageal distension by high-frequency intraluminal ultrasound probe. American Journal of Physiology - Renal Physiology, 2002, 283, G886-G892.	3.4	22
76	A novel ultrasound technique to study the biomechanics of the human esophagus in vivo. American Journal of Physiology - Renal Physiology, 2002, 282, G785-G793.	3.4	46
77	Evaluation of Omeprazole in the Treatment of Reflux Laryngitis: A Prospective, Placebo-Controlled, Randomized, Double-Blind Study. Laryngoscope, 2001, 111, 2147-2151.	2.0	191
78	Assessment of esophageal motility in achalasia using high frequency introluminal ultrasonography (HFIUS). American Journal of Gastroenterology, 2000, 95, 2446-2446.	0.4	0
79	Hiatal Hernia. American Journal of Medicine, 1997, 103, 33S-39S.	1.5	59
80	The Esophagogastric Junction. New England Journal of Medicine, 1997, 336, 924-932.	27.0	548
81	Human sphincter of oddi motility and cholecystokinin response following liver transplantation. Digestive Diseases and Sciences, 1993, 38, 462-468.	2.3	35
82	The sphincter mechanism at the lower end of the esophagus: An overview. Dysphagia, 1993, 8, 347-350.	1.8	10
83	Esophageal motility. Current Opinion in Gastroenterology, 1992, 8, 553-561.	2.3	0
84	Infusion manometry and detection of sphincteric function of crural diaphragm. Digestive Diseases and Sciences, 1991, 36, 6S-13S.	2.3	2
85	Hypertensive lower esophageal sphincter and dysphagia. Digestive Diseases and Sciences, 1990, 35, 667-668.	2.3	0
86	The hypertensive lower esophageal sphincter. Digestive Diseases and Sciences, 1989, 34, 1063-1067.	2.3	37
87	Hiccups and gastroesophageal reflux: Cause and effect?. Digestive Diseases and Sciences, 1989, 34, 1277-1280.	2.3	19
88	Shoulder Pain: An Unusual Presentation of Gastric Ulcer. Southern Medical Journal, 1989, 82, 1446-1447.	0.7	4
89	Effects of morphine and naloxone on esophageal motility and gastric emptying in man. Digestive Diseases and Sciences, 1986, 31, 936-942.	2.3	101
90	Dysphagia aortica. Digestive Diseases and Sciences, 1986, 31, 379-384.	2.3	51