

Jörg-Dieter Schulzke

List of Publications by Year in descending order

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108
papers

12,365
citations

36203

51
h-index

28224

105
g-index

108
all docs

108
docs citations

108
times ranked

12128
citing authors

#	ARTICLE	IF	CITATIONS
1	Human duodenal organoid-derived monolayers serve as a suitable barrier model for duodenal tissue. <i>Annals of the New York Academy of Sciences</i> , 2022, 1515, 155-167.	1.8	10
2	Diarrheal Mechanisms and the Role of Intestinal Barrier Dysfunction in <i>Campylobacter</i> Infections. <i>Current Topics in Microbiology and Immunology</i> , 2021, 431, 203-231.	0.7	19
3	Immune-Mediated Aggravation of the <i>Campylobacter concisus</i> -Induced Epithelial Barrier Dysfunction. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2043.	1.8	5
4	Expression of tricellular tight junction proteins and the paracellular macromolecule barrier are recovered in remission of ulcerative colitis. <i>BMC Gastroenterology</i> , 2021, 21, 141.	0.8	19
5	The Punicalagin Metabolites Ellagic Acid and Urolithin A Exert Different Strengthening and Anti-Inflammatory Effects on Tight Junction-Mediated Intestinal Barrier Function In Vitro. <i>Frontiers in Pharmacology</i> , 2021, 12, 610164.	1.6	24
6	<i>Escherichia coli</i> Alpha-Hemolysin HlyA Induces Host Cell Polarity Changes, Epithelial Barrier Dysfunction and Cell Detachment in Human Colon Carcinoma Caco-2 Cell Model via PTEN-Dependent Dysregulation of Cell Junctions. <i>Toxins</i> , 2021, 13, 520.	1.5	8
7	Vitamin D Reverses Disruption of Gut Epithelial Barrier Function Caused by <i>Campylobacter jejuni</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 8872.	1.8	13
8	Resveratrol Alleviates Acute <i>Campylobacter jejuni</i> Induced Enterocolitis in a Preclinical Murine Intervention Study. <i>Microorganisms</i> , 2020, 8, 1858.	1.6	14
9	Altered Structural Expression and Enzymatic Activity Parameters in Quiescent Ulcerative Colitis: Are These Potential Normalization Criteria?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1887.	1.8	8
10	Zinc prevents intestinal epithelial barrier dysfunction induced by alpha-hemolysin-producing <i>Escherichia coli</i> 536 infection in porcine colon. <i>Veterinary Microbiology</i> , 2020, 243, 108632.	0.8	12
11	<i>Campylobacter concisus</i> Impairs Sodium Absorption in Colonic Epithelium via ENaC Dysfunction and Claudin-8 Disruption. <i>International Journal of Molecular Sciences</i> , 2020, 21, 373.	1.8	16
12	Role of the Epithelium in Diseases of the Intestine. <i>Physiology in Health and Disease</i> , 2020, , 77-109.	0.2	0
13	Vitamin D in Acute <i>Campylobacteriosis</i> —Results From an Intervention Study Applying a Clinical <i>Campylobacter jejuni</i> Induced Enterocolitis Model. <i>Frontiers in Immunology</i> , 2019, 10, 2094.	2.2	24
14	Curcumin Mitigates Immune-Induced Epithelial Barrier Dysfunction by <i>Campylobacter jejuni</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 4830.	1.8	34
15	Phospholipid effects on SGLT1-mediated glucose transport in rabbit ileum brush border membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 182985.	1.4	1
16	<i>Campylobacter jejuni</i> enters gut epithelial cells and impairs intestinal barrier function through cleavage of occludin by serine protease HtrA. <i>Gut Pathogens</i> , 2019, 11, 4.	1.6	61
17	Tilivalline- and Tilimycin-Independent Effects of <i>Klebsiella oxytoca</i> on Tight Junction-Mediated Intestinal Barrier Impairment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5595.	1.8	19
18	Tricellulin Effect on Paracellular Water Transport. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5700.	1.8	15

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19	Epithelial barrier dysfunction as permissive pathomechanism in human intestinal graft-versus-host disease. <i>Bone Marrow Transplantation</i> , 2018, 53, 1083-1086.	1.3	2
20	Reversible opening of the blood-brain barrier by claudin-5-binding variants of <i>Clostridium perfringens</i> enterotoxin's claudin-binding domain. <i>Biomaterials</i> , 2018, 161, 129-143.	5.7	49
21	In Colon Epithelia, <i>Clostridium perfringens</i> Enterotoxin Causes Focal Leaks by Targeting Claudins Which are Apically Accessible Due to Tight Junction Derangement. <i>Journal of Infectious Diseases</i> , 2018, 217, 147-157.	1.9	46
22	Ion Channels of the Gastrointestinal Epithelial Cells. , 2018, , 1363-1404.		8
23	Epithelial barrier dysfunction in lymphocytic colitis through cytokine-dependent internalization of claudin-5 and -8. <i>Journal of Gastroenterology</i> , 2017, 52, 1090-1100.	2.3	29
24	Celiac Disease: Role of the Epithelial Barrier. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017, 3, 150-162.	2.3	116
25	Active and passive involvement of claudins in the pathophysiology of intestinal inflammatory diseases. <i>Pflügers Archiv European Journal of Physiology</i> , 2017, 469, 15-26.	1.3	69
26	Lactoferrin protects against intestinal inflammation and bacteria-induced barrier dysfunction <i>in vitro</i> . <i>Annals of the New York Academy of Sciences</i> , 2017, 1405, 177-188.	1.8	60
27	Zinc treatment is efficient against <i>Escherichia coli</i> α -haemolysin-induced intestinal leakage in mice. <i>Scientific Reports</i> , 2017, 7, 45649.	1.6	31
28	Myrrh exerts barrier-stabilising and -protective effects in HT-29/B6 and Caco-2 intestinal epithelial cells. <i>International Journal of Colorectal Disease</i> , 2017, 32, 623-634.	1.0	19
29	Water channels and barriers formed by claudins. <i>Annals of the New York Academy of Sciences</i> , 2017, 1397, 100-109.	1.8	51
30	<i>Campylobacter fetus</i> impairs barrier function in HT-29/B6 cells through focal tight junction alterations and leaks. <i>Annals of the New York Academy of Sciences</i> , 2017, 1405, 189-201.	1.8	12
31	Long-term response to gluten-free diet as evidence for non-celiac wheat sensitivity in one third of patients with diarrhea-dominant and mixed-type irritable bowel syndrome. <i>International Journal of Colorectal Disease</i> , 2017, 32, 29-39.	1.0	57
32	Gastrointestinal Tract As Entry Route for Hantavirus Infection. <i>Frontiers in Microbiology</i> , 2017, 8, 1721.	1.5	35
33	Zinc strengthens the jejunal barrier by reversibly tightening the paracellular route. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, G537-G548.	1.6	3
34	ENaC Dysregulation Through Activation of MEK1/2 Contributes to Impaired Na ⁺ Absorption in Lymphocytic Colitis. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 539-547.	0.9	21
35	The ginger component 6-shogaol prevents TNF- α -induced barrier loss via inhibition of PI3K/Akt and NF- κ B signaling. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2576-2586.	1.5	70
36	<i>Yersinia enterocolitica</i> Affects Intestinal Barrier Function in the Colon. <i>Journal of Infectious Diseases</i> , 2016, 213, 1157-1162.	1.9	13

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37	Probing the <i>cis</i> -arrangement of prototype tight junction proteins claudin-1 and claudin-3. <i>Biochemical Journal</i> , 2015, 468, 449-458.	1.7	37
38	Interleukin-13 affects the epithelial sodium channel in the intestine by coordinated modulation of STAT6 and p38 MAPK activity. <i>Journal of Physiology</i> , 2015, 593, 5269-5282.	1.3	30
39	Monocyte and M1 Macrophage-induced Barrier Defect Contributes to Chronic Intestinal Inflammation in IBD. <i>Inflammatory Bowel Diseases</i> , 2015, 21, 1.	0.9	206
40	Claudin-related intestinal diseases. <i>Seminars in Cell and Developmental Biology</i> , 2015, 42, 30-38.	2.3	92
41	Hereditary barrier-related diseases involving the tight junction: lessons from skin and intestine. <i>Cell and Tissue Research</i> , 2015, 360, 723-748.	1.5	21
42	Intestinal permeability – a new target for disease prevention and therapy. <i>BMC Gastroenterology</i> , 2014, 14, 189.	0.8	1,187
43	Î±-Haemolysin of <i>Escherichia coli</i> in IBD: a potentiator of inflammatory activity in the colon. <i>Gut</i> , 2014, 63, 1893-1901.	6.1	60
44	Tight junction, selective permeability, and related diseases. <i>Seminars in Cell and Developmental Biology</i> , 2014, 36, 166-176.	2.3	245
45	Small intestinal permeability in older adults. <i>Physiological Reports</i> , 2014, 2, e00281.	0.7	48
46	New insights into intestinal secretion. <i>Gut</i> , 2014, 63, 1371-1372.	6.1	3
47	Improved Cell Line IPEC-J2, Characterized as a Model for Porcine Jejunal Epithelium. <i>PLoS ONE</i> , 2013, 8, e79643.	1.1	83
48	The Plant-Derived Glucocorticoid Receptor Agonist Endiandrin A Acts as Co-Stimulator of Colonic Epithelial Sodium Channels (ENaC) via SGK-1 and MAPKs. <i>PLoS ONE</i> , 2012, 7, e49426.	1.1	14
49	Determinants of colonic barrier function in inflammatory bowel disease and potential therapeutics. <i>Journal of Physiology</i> , 2012, 590, 1035-1044.	1.3	210
50	Claudin-17 forms tight junction channels with distinct anion selectivity. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2765-2778.	2.4	103
51	Perspectives on tight junction research. <i>Annals of the New York Academy of Sciences</i> , 2012, 1257, 1-19.	1.8	44
52	Defective tight junctions in refractory celiac disease. <i>Annals of the New York Academy of Sciences</i> , 2012, 1258, 43-51.	1.8	45
53	Effects of quercetin studied in colonic HT29/B6 cells and rat intestine <i>in vitro</i> . <i>Annals of the New York Academy of Sciences</i> , 2012, 1258, 100-107.	1.8	36
54	Ion transport and barrier function are disturbed in microscopic colitis. <i>Annals of the New York Academy of Sciences</i> , 2012, 1258, 143-148.	1.8	23

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55	Epithelial Barriers in Intestinal Inflammation. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1255-1270.	2.5	145
56	Anti-Diarrheal Mechanism of the Traditional Remedy Uzara via Reduction of Active Chloride Secretion. <i>PLoS ONE</i> , 2011, 6, e18107.	1.1	19
57	Oral and Fecal <i>Campylobacter concisus</i> Strains Perturb Barrier Function by Apoptosis Induction in HT-29/B6 Intestinal Epithelial Cells. <i>PLoS ONE</i> , 2011, 6, e23858.	1.1	70
58	<i>Yersinia enterocolitica</i> induces epithelial barrier dysfunction through regional tight junction changes in colonic HT-29/B6 cell monolayers. <i>Laboratory Investigation</i> , 2011, 91, 310-324.	1.7	35
59	Glucocorticoid receptor is indispensable for physiological responses to aldosterone in epithelial Na ⁺ -channel induction via the mineralocorticoid receptor in a human colonic cell line. <i>European Journal of Cell Biology</i> , 2011, 90, 432-439.	1.6	22
60	Aerolysin From <i>Aeromonas hydrophila</i> Perturbs Tight Junction Integrity and Cell Lesion Repair in Intestinal Epithelial HT-29/B6 Cells. <i>Journal of Infectious Diseases</i> , 2011, 204, 1283-1292.	1.9	63
61	Transforming Growth Factor- β 2, a Whey Protein Component, Strengthens the Intestinal Barrier by Upregulating Claudin-4 in HT-29/B6 Cells ^{1,2} . <i>Journal of Nutrition</i> , 2011, 141, 783-789.	1.3	90
62	Aerolysin disturbs tight junction integrity and epithelial restitution. <i>FASEB Journal</i> , 2011, 25, .	0.2	0
63	TNF α -induced and berberine-antagonized tight junction barrier impairment via tyrosine kinase, Akt and NF κ B signaling. <i>Journal of Cell Science</i> , 2010, 123, 4145-4155.	1.2	196
64	Claudins in Intestinal Function and Disease. <i>Current Topics in Membranes</i> , 2010, , 195-227.	0.5	15
65	Claudin-2, a component of the tight junction, forms a paracellular water channel. <i>Journal of Cell Science</i> , 2010, 123, 1913-1921.	1.2	345
66	Claudin-3 acts as a sealing component of the tight junction for ions of either charge and uncharged solutes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 2048-2057.	1.4	193
67	Norovirus non-structural protein p20 leads to impaired restitution of epithelial defects by inhibition of actin cytoskeleton remodelling. <i>Scandinavian Journal of Gastroenterology</i> , 2010, 45, 1307-1319.	0.6	5
68	Tricellulin Forms a Barrier to Macromolecules in Tricellular Tight Junctions without Affecting Ion Permeability. <i>Molecular Biology of the Cell</i> , 2009, 20, 3713-3724.	0.9	288
69	TNF α up-regulates claudin-2 expression in epithelial HT-29/B6 cells via phosphatidylinositol-3-kinase signaling. <i>Cell and Tissue Research</i> , 2009, 336, 67-77.	1.5	135
70	Inflamed pouch mucosa possesses altered tight junctions indicating recurrence of inflammatory bowel disease. <i>International Journal of Colorectal Disease</i> , 2009, 24, 1149-1156.	1.0	51
71	High-Resolution Analysis of Barrier Function. <i>Annals of the New York Academy of Sciences</i> , 2009, 1165, 74-81.	1.8	26
72	Epithelial Tight Junctions in Intestinal Inflammation. <i>Annals of the New York Academy of Sciences</i> , 2009, 1165, 294-300.	1.8	318

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73	Disorders of intestinal secretion and absorption. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2009, 23, 395-406.	1.0	17
74	Na ⁺ absorption defends from paracellular back-leakage by claudin-8 upregulation. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 45-50.	1.0	87
75	A colonic mineralocorticoid receptor cell model expressing epithelial Na ⁺ channels. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 280-285.	1.0	12
76	Therapeutic Options to Modulate Barrier Defects in Inflammatory Bowel Disease. <i>Digestive Diseases</i> , 2009, 27, 450-454.	0.8	101
77	Regulation of mucosal structure and barrier function in rat colon exposed to tumor necrosis factor alpha and interferon gamma <i>in vitro</i> : A novel model for studying the pathomechanisms of inflammatory bowel disease cytokines. <i>Scandinavian Journal of Gastroenterology</i> , 2009, 44, 1226-1235.	0.6	109
78	<i>Arcobacter butzleri</i> Induces Barrier Dysfunction in Intestinal HT-29/B6 Cells. <i>Journal of Infectious Diseases</i> , 2009, 200, 756-764.	1.9	63
79	Altered ENaC Expression Leads to Impaired Sodium Absorption in the Noninflamed Intestine in Crohn's Disease. <i>Gastroenterology</i> , 2008, 134, 1436-1447.	0.6	66
80	Quercetin Enhances Epithelial Barrier Function and Increases Claudin-4 Expression in Caco-2 Cells. <i>Journal of Nutrition</i> , 2008, 138, 1067-1073.	1.3	146
81	Butyrate Induces Intestinal Sodium Absorption via Sp3-Mediated Transcriptional Up-Regulation of Epithelial Sodium Channels. <i>Gastroenterology</i> , 2007, 132, 236-248.	0.6	39
82	<i>Escherichia coli</i> α -haemolysin induces focal leaks in colonic epithelium: a novel mechanism of bacterial translocation. <i>Cellular Microbiology</i> , 2007, 9, 2530-2540.	1.1	52
83	Restoration of ENaC expression by glucocorticoid receptor transfection in human HT-29/B6 colon cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 1065-1070.	1.0	13
84	Disrupted Barrier Function through Epithelial Cell Apoptosis. <i>Annals of the New York Academy of Sciences</i> , 2006, 1072, 288-299.	1.8	154
85	TRPV4-mediated regulation of epithelial permeability. <i>FASEB Journal</i> , 2006, 20, 1802-1812.	0.2	106
86	Contribution of claudin-5 to barrier properties in tight junctions of epithelial cells. <i>Cell and Tissue Research</i> , 2005, 321, 89-96.	1.5	160
87	Interleukin-13 Is the Key Effector Th2 Cytokine in Ulcerative Colitis That Affects Epithelial Tight Junctions, Apoptosis, and Cell Restitution. <i>Gastroenterology</i> , 2005, 129, 550-564.	0.6	951
88	Interleukin-13 Is the Key Effector Th2 Cytokine in Ulcerative Colitis That Affects Epithelial Tight Junctions, Apoptosis, and Cell Restitution. <i>Gastroenterology</i> , 2005, 129, 550-564.	0.6	806
89	The specific fates of tight junction proteins in apoptotic epithelial cells. <i>Journal of Cell Science</i> , 2004, 117, 2097-2107.	1.2	152
90	Downregulation of epithelial apoptosis and barrier repair in active Crohn's disease by tumour necrosis factor α antibody treatment. <i>Gut</i> , 2004, 53, 1295-1302.	6.1	261

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91	Cytokine-dependent transcriptional down-regulation of epithelial sodium channel in ulcerative colitis. <i>Gastroenterology</i> , 2004, 126, 1711-1720.	0.6	114
92	Functional crosstalk between Wnt signaling and Cdx-related transcriptional activation in the regulation of the claudin-2 promoter activity. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 1001-1007.	1.0	100
93	IL-1 β and TNF α regulate sodium absorption in rat distal colon. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 500-507.	1.0	54
94	Supernatants of HIV-infected immune cells affect the barrier function of human HT-29/B6 intestinal epithelial cells. <i>Aids</i> , 2002, 16, 983-991.	1.0	57
95	Mechanisms of diarrhea in collagenous colitis. <i>Gastroenterology</i> , 2002, 123, 433-443.	0.6	238
96	Claudin-2 expression induces cation-selective channels in tight junctions of epithelial cells. <i>Journal of Cell Science</i> , 2002, 115, 4969-4976.	1.2	700
97	Leaks in the epithelial barrier caused by spontaneous and TNF α -induced single cell apoptosis. <i>FASEB Journal</i> , 2000, 14, 1749-1753.	0.2	228
98	Complex Phenotype of Mice Lacking Occludin, a Component of Tight Junction Strands. <i>Molecular Biology of the Cell</i> , 2000, 11, 4131-4142.	0.9	1,005
99	Epithelial Barrier Defects in HT-29/B6 Colonic Cell Monolayers Induced by Tumor Necrosis Factor α . <i>Annals of the New York Academy of Sciences</i> , 2000, 915, 193-203.	1.8	77
100	Apoptosis and Intestinal Barrier Function. <i>Annals of the New York Academy of Sciences</i> , 2000, 915, 270-274.	1.8	36
101	Mechanisms of Epithelial Barrier Impairment in HIV Infection. <i>Annals of the New York Academy of Sciences</i> , 2000, 915, 293-303.	1.8	38
102	Altered tight junction structure contributes to the impaired epithelial barrier function in ulcerative colitis. <i>Gastroenterology</i> , 1999, 116, 301-309.	0.6	526
103	The Mechanism of Diarrhea in HIV Is Based on an Impaired Epithelial Barrier Function That Could Be Induced by a Specific Cytokine Pattern. <i>Annals of the New York Academy of Sciences</i> , 1998, 859, 267-270.	1.8	12
104	Clinical Models of Intestinal Adaptation. <i>Annals of the New York Academy of Sciences</i> , 1998, 859, 127-138.	1.8	8
105	Duodenal biopsies of HIV-infected patients with diarrhoea exhibit epithelial barrier defects but no active secretion. <i>Aids</i> , 1998, 12, 43-51.	1.0	87
106	Epithelial Tight Junction Structure in the Jejunum of Children with Acute and Treated Celiac Sprue. <i>Pediatric Research</i> , 1998, 43, 435-441.	1.1	167
107	Ussing chamber for high-frequency transmural impedance analysis of epithelial tissues. <i>Journal of Proteomics</i> , 1997, 35, 81-88.	2.4	54
108	Ion transport in the experimental short bowel syndrome of the rat. <i>Gastroenterology</i> , 1992, 102, 497-504.	0.6	73