William Allan Walker

List of Publications by Year
in descending order

67 papers	6,038 citations	101384 36 h-index	110170 64 g-index
80 all docs	80 docs citations	80 times ranked	6151 citing authors

#	Article	IF	Citations
1	Necrotizing Enterocolitis. New England Journal of Medicine, 2011, 364, 255-264.	13.9	1,707
2	Hypothesis: inappropriate colonization of the premature intestine can cause neonatal necrotizing enterocolitis. FASEB Journal, 2001, 15, 1398-1403.	0.2	378
3	The Mechanism of Excessive Intestinal Inflammation in Necrotizing Enterocolitis: An Immature Innate Immune Response. PLoS ONE, 2011, 6, e17776.	1.1	287
4	Pathologic and physiologic interactions of bacteria with the gastrointestinal epithelium. American Journal of Clinical Nutrition, 2001, 73, 1124S-1130S.	2.2	246
5	Breast milk, microbiota, and intestinal immune homeostasis. Pediatric Research, 2015, 77, 220-228.	1.1	236
6	Developmentally regulated IÂB expression in intestinal epithelium and susceptibility to flagellin-induced inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7404-7408.	3.3	203
7	Mechanisms of Action of Probiotics. Clinical Infectious Diseases, 2008, 46, S87-S91.	2.9	188
8	Evidence for an Innate Immune Response in the Immature Human Intestine: Toll-Like Receptors on Fetal Enterocytes. Pediatric Research, 2001, 49, 589-593.	1.1	180
9	Influence of maternal breast milk ingestion on acquisition of the intestinal microbiome in preterm infants. Microbiome, 2016, 4, 68.	4.9	155
10	Longitudinal Analysis of the Premature Infant Intestinal Microbiome Prior to Necrotizing Enterocolitis: A Case-Control Study. PLoS ONE, 2015, 10, e0118632.	1.1	146
11	Indole-3-lactic acid, a metabolite of tryptophan, secreted by Bifidobacterium longum subspecies infantis is anti-inflammatory in the immature intestine. Pediatric Research, 2020, 88, 209-217.	1.1	145
12	Initial Intestinal Colonization in the Human Infant and Immune Homeostasis. Annals of Nutrition and Metabolism, 2013, 63, 8-15.	1.0	137
13	Modulation of Human Intestinal Epithelial Cell IL-8 Secretion by Human Milk Factors. Pediatric Research, 2003, 53, 419-425.	1.1	134
14	Probiotics prevent necrotizing enterocolitis by modulating enterocyte genes that regulate innate immune-mediated inflammation. American Journal of Physiology - Renal Physiology, 2013, 304, G132-G141.	1.6	126
15	The importance of appropriate initial bacterial colonization of the intestine in newborn, child, and adult health. Pediatric Research, 2017, 82, 387-395.	1.1	120
16	Activation of Epidermal Growth Factor Receptor Mediates Mucin Production Stimulated by p40, a Lactobacillus rhamnosus GG-derived Protein. Journal of Biological Chemistry, 2014, 289, 20234-20244.	1.6	113
17	Diet and hostâ€“microbial crosstalk in postnatal intestinal immune homeostasis. Nature Reviews Gastroenterology and Hepatology, 2015, 12, 14-25.	8.2	85
18	The very low birth weight infant microbiome and childhood health. Birth Defects Research Part C: Embryo Today Reviews, 2015, 105, 252-264.	3.6	70

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19	Development of the Intestinal Mucosal Barrier. Journal of Pediatric Gastroenterology and Nutrition, 2002, 34, S33-S39.	0.9	68
20	Glucocorticoid responsiveness in developing human intestine: possible role in prevention of necrotizing enterocolitis. American Journal of Physiology - Renal Physiology, 2005, 288, G85-G92.	1.6	68
21	Human Fetal-Derived Enterospheres Provide Insights on Intestinal Development and a Novel Model to Study Necrotizing Enterocolitis (NEC). Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 549-568.	2.3	60
22	Changes in the Gastrointestinal Tract during Enteral or Parenteral Feeding. Nutrition Reviews, 1989, 47, 193-198.	2.6	59
23	Immunologic Factors in Human Milk and Disease Prevention in the Preterm Infant. Current Pediatrics Reports, 2013, 1, 222-228.	1.7	58
24	Progress in the science of probiotics: from cellular microbiology and applied immunology to clinical nutrition. European Journal of Nutrition, 2006, 45, 1-18.	1.8	56
25	Short chain fatty acids produced by colonizing intestinal commensal bacterial interaction with expressed breast milk are anti-inflammatory in human immature enterocytes. PLoS ONE, 2020, 15, e0229283.	1.1	56
26	Probiotics in the Prevention of Necrotizing Enterocolitis. Journal of Clinical Gastroenterology, 2011, 45, S133-S138.	1.1	54
27	Lactobacillus rhamnosus GG and its SpaC pilus adhesin modulate inflammatory responsiveness and TLR-related gene expression in the fetal human gut. Pediatric Research, 2015, 77, 528-535.	1.1	52
28	Short-chain fatty acid butyrate, a breast milk metabolite, enhances immature intestinal barrier function genes in response to inflammation in vitro and in vivo. American Journal of Physiology - Renal Physiology, 2021, 320, G521-G530.	1.6	50
29	Exogenous Nucleotides Alter the Proliferation, Differentiation and Apoptosis of Human Small Intestinal Epithelium. Journal of Nutrition, 1996, 126, 424-433.	1.3	49
30	Chronic Nonspecific Diarrhea: Dietary Relationships. Pediatrics, 1979, 64, 402-407.	1.0	49
31	Prolactin is transported across the epithelium of the jejunum and ileum of the suckling rat. Journal of Cellular Physiology, 1989, 140, 138-149.	2.0	48
32	Conditioned medium from Bifidobacteria infantis protects against Cronobacter sakazakii-induced intestinal inflammation in newborn mice. American Journal of Physiology - Renal Physiology, 2014, 306, G779-G787.	1.6	44
33	The Dynamic Effects of Breastfeeding on Intestinal Development and Host Defense. Advances in Experimental Medicine and Biology, 2004, 554, 155-170.	0.8	44
34	Toll-like receptor-4 in human and mouse colonic epithelium is developmentally regulated: a possible role in necrotizing enterocolitis. Pediatric Research, 2015, 77, 416-424.	1.1	43
35	Uptake, Transport and Metabolism of Exogenous Nucleosides in Intestinal Epithelial Cell Cultures. Journal of Nutrition, 1994, 124, 1942-1949.	1.3	40
36	Anti-inflammatory effects of Bifidobacterium longum subsp infantis secretions on fetal human enterocytes are mediated by TLR-4 receptors. American Journal of Physiology - Renal Physiology, 2016, 311, G744-G753.	1.6	39

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37	Immunologic control of soluble protein absorption from the small intestine: a gut-surface phenomenon. American Journal of Clinical Nutrition, 1974, 27, 1434-1440.	2.2	38
38	Hepatobiliary Clearance of IgA Immune Complexes Formed in the Circulation. Hepatology, 1982, 2, 328S-333S.	3.6	35
39	The Liver: An Integral Part of the Enteric Mucosal Immune System. Hepatology, 1982, 2, 379S-384S.	3.6	35
40	Development of Intestinal Host Defense: An Increased Sensitivity in the Adenylate Cyclase Response to Cholera Toxin in Suckling Rats. Pediatric Research, 1989, 25, 225-227.	1.1	33
41	Absorption of Protein and Protein Fragments in the Developing Intestine: Role in Immunologic/Allergic Reactions. Pediatrics, 1985, 75, 167-171.	1.0	33
42	The Effect of Short-Term Starvation on Mucosal Barrier Function in the Newborn Rabbit. Pediatric Research, 1985, 19, 727-731.	1.1	30
43	Long-chain polyunsaturated fatty acids attenuate the IL-1Î²-induced proinflammatory response in human fetal intestinal epithelial cells. Pediatric Research, 2015, 78, 626-633.	1.1	29
44	Innovative Teaching Strategies for Training Physicians in Clinical Nutrition: An Overview. Journal of Nutrition, 2003, 133, 541S-543S.	1.3	26
45	Gastrointestinal Host Defence: Importance of Gut Closure in Control of Macromolecular Transport. Novartis Foundation Symposium, 1979, , 201-219.	1.2	22
46	The impact of indole-3-lactic acid on immature intestinal innate immunity and development: a transcriptomic analysis. Scientific Reports, 2021, 11, 8088.	1.6	22
47	Human fetal intestinal epithelial cells metabolize and incorporate branched chain fatty acids in a structure specific manner. Prostaglandins Leukotrienes and Essential Fatty Acids, 2017, 116, 32-39.	1.0	20
48	Differential Expression of the Activator Protein 1 Transcription Factor Regulates Interleukin-1ÃŸ Induction of Interleukin 6 in the Developing Enterocyte. PLoS ONE, 2016, 11, e0145184.	1.1	18
49	Symposium Introduction: Nutrition and Gene Regulation. Journal of Nutrition, 2004, 134, 2434S-2436S.	1.3	17
50	Bacterial Colonization of the Newborn Gut, Immune Development, and Prevention of Disease. Nestle Nutrition Institute Workshop Series, 2017, 88, 23-34.	1.5	13
51	The Effect of Bile Duct Obstruction on the Clearance of Circulating IgA Immune Complexes. Hepatology, 1984, 4, 96-100.	3.6	10
52	Functional foods for health promotion: microbes and healthâ€¨Extended abstracts from the 11th Annual Conference on Functional Foods for Health Promotion, April 2008. Nutrition Reviews, 2009, 67, 40-48.	2.6	9
53	The developmentally regulated fetal enterocyte gene, ZP4, mediates anti-inflammation by the symbiotic bacterial surface factor polysaccharide A on Bacteroides fragilis. American Journal of Physiology - Renal Physiology, 2019, 317, G398-G407.	1.6	8
54	Role of the Mucosal Barrier in Toxin/Microbial Attachment to the Gastrointestinal Tract. Novartis Foundation Symposium, 1985, 112, 34-56.	1.2	8

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55	Hydrocortisone-induced anti-inflammatory effects in immature human enterocytes depend on the timing of exposure. American Journal of Physiology - Renal Physiology, 2016, 310, G920-G929.	1.6	7
56	Breast Milk and Microbiota in the Premature Gut: A Method of Preventing Necrotizing Enterocolitis. Nestle Nutrition Institute Workshop Series, 2020, 94, 103-112.	1.5	7
57	State of Research in Pediatric Gastroenterology, Hepatology, and Nutrition: 2010 and Beyond. Gastroenterology, 2010, 138, 411-416.e2.	0.6	6
58	Nucleotides and Nutrition: Role as Dietary Supplement. Journal of Nutrition, 1994, 124, 121S-123S.	1.3	5
59	INDUCTION OF (PARTIAL) SYSTEMIC TOLERANCE IN PRIMED RATS SUBJECTED TO PROLONGED ORAL ADMINISTRATION OF ANTIGEN. Annals of the New York Academy of Sciences, 1983, 409, 787-788.	1.8	3
60	State of Pediatric Gastroenterology, Hepatology, and Nutrition: 2006 and Beyond. Gastroenterology, 2007, 132, 434-436.	0.6	3
61	Mead Johnson Symposium: Functional Proteins in Human Milk: RoleÂinÂInfant Health and Development. Journal of Pediatrics, 2010, 156, S1-S2.	0.9	3
62	Uptake of antigens: Role in gastrointestinal disease. Pediatrics International, 1994, 36, 597-610.	0.2	1
63	The Role of Allergen Uptake From the Gastrointestinal Tract in Allergy. Allergy and Asthma Proceedings, 1984, 5, 237-242.	1.0	0
64	Opportunities in Pediatric IBD Research. Journal of Pediatric Gastroenterology and Nutrition, 2005, 40, S4.	0.9	0
65	Immunology section. Current Opinion in Gastroenterology, 2008, 24, 698-700.	1.0	0
66	Salmonella typhimurium bind specific glycoconjugate receptors on human intestinal epithelium during infection. FASEB Journal, 2007, 21, A587.	0.2	0
67	Arachidonic acid and Docosahexaenoic acid attenuate inflammation in human fetal but not adult intestinal epithelial cells. FASEB Journal, 2013, 27, 45.2.	0.2	0