David J Hackam

List of Publications by Year
in descending order

193	13,157	15503 65	27402 106
papers	citations	h-index	g-index

197	197	197	12708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enterocyte TLR4 Mediates Phagocytosis and Translocation of Bacteria Across the Intestinal Barrier. Journal of Immunology, 2006, 176, 3070-3079.	0.8	440
2	A Critical Role for TLR4 in the Pathogenesis of Necrotizing Enterocolitis by Modulating Intestinal Injury and Repair. Journal of Immunology, 2007, 179, 4808-4820.	0.8	400
3	Necrotizing enterocolitis: new insights into pathogenesis and mechanisms. Nature Reviews Gastroenterology and Hepatology, 2016, 13, 590-600.	17.8	381
4	Laparotomy versus Peritoneal Drainage for Necrotizing Enterocolitis and Perforation. New England Journal of Medicine, 2006, 354, 2225-2234.	27.0	371
5	Attenuation of pulmonary ACE2 activity impairs inactivation of des-Arg‹sup›9‹/sup›bradykinin/BKB1R axis and facilitates LPS-induced neutrophil infiltration. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 314, L17-L31.	2.9	304
6	The Iron Transport Protein NRAMP2 Is an Integral Membrane Glycoprotein That Colocalizes with Transferrin in Recycling Endosomes. Journal of Experimental Medicine, 1999, 189, 831-841.	8.5	284
7	Hemorrhagic Shock Induces NAD(P)H Oxidase Activation in Neutrophils: Role of HMGB1-TLR4 Signaling. Journal of Immunology, 2007, 178, 6573-6580.	0.8	268
8	Intestinal Epithelial Toll-Like Receptor 4 Regulates Goblet Cell Development and Is Required for Necrotizing Enterocolitis in Mice. Gastroenterology, 2012, 143, 708-718.e5.	1.3	250
9	Reciprocal Expression and Signaling of TLR4 and TLR9 in the Pathogenesis and Treatment of Necrotizing Enterocolitis. Journal of Immunology, 2009, 182, 636-646.	0.8	210
10	Host Resistance to Intracellular Infection: Mutation of Natural Resistance-associated Macrophage Protein 1 (Nramp1) Impairs Phagosomal Acidification. Journal of Experimental Medicine, 1998, 188, 351-364.	8.5	200
11	Systemic inflammation and remote organ injury following trauma require HMGB1. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1538-R1544.	1.8	199
12	Toll-Like Receptor-4 Inhibits Enterocyte Proliferation via Impaired Î²-Catenin Signaling in Necrotizing Enterocolitis. Gastroenterology, 2010, 138, 185-196.	1.3	193
13	THE ROLE OF THE INTESTINAL BARRIER IN THE PATHOGENESIS OF NECROTIZING ENTEROCOLITIS. Shock, 2007, 27, 124-133.	2.1	191
14	Endothelial TLR4 activation impairs intestinal microcirculatory perfusion in necrotizing enterocolitis via eNOSâ€“NOâ€“nitrite signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9451-9456.	7.1	186
15	Toll-like receptor 4â€“mediated lymphocyte influx induces neonatal necrotizing enterocolitis. Journal of Clinical Investigation, 2015, 126, 495-508.	8.2	185
16	Toll-like Receptor 4 Is Expressed on Intestinal Stem Cells and Regulates Their Proliferation and Apoptosis via the p53 Up-regulated Modulator of Apoptosis. Journal of Biological Chemistry, 2012, 287, 37296-37308.	3.4	182
17	Breast milk protects against the development of necrotizing enterocolitis through inhibition of Toll-like receptor 4 in the intestinal epithelium via activation of the epidermal growth factor receptor. Mucosal Immunology, 2015, 8, 1166-1179.	6.0	175
18	Lipopolysaccharide Clearance, Bacterial Clearance, and Systemic Inflammatory Responses Are Regulated by Cell Typeâ€“Specific Functions of TLR4 during Sepsis. Journal of Immunology, 2013, 190, 5152-5160.	0.8	165

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19	Rho is Required for the Initiation of Calcium Signaling and Phagocytosis by FcÎ³ Receptors in Macrophages. Journal of Experimental Medicine, 1997, 186, 955-966.	8.5	164
20	The role of epithelial Toll-like receptor signaling in the pathogenesis of intestinal inflammation. Journal of Leukocyte Biology, 2008, 83, 493-498.	3.3	160
21	No Longer an Innocent Bystander: Epithelial Toll-Like Receptor Signaling in the Development of Mucosal Inflammation. Molecular Medicine, 2008, 14, 645-659.	4.4	160
22	Mechanism of Decreased In Vitro Murine Macrophage Cytokine Release After Exposure to Carbon Dioxide. Annals of Surgery, 1997, 226, 179-190.	4.2	160
23	Amniotic fluid inhibits Toll-like receptor 4 signaling in the fetal and neonatal intestinal epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11330-11335.	7.1	151
24	Hypoxia causes an increase in phagocytosis by macrophages in a HIF-1Î±-dependent manner. Journal of Leukocyte Biology, 2007, 82, 1257-1265.	3.3	150
25	The human milk oligosaccharide 2â€²-fucosyllactose attenuates the severity of experimental necrotising enterocolitis by enhancing mesenteric perfusion in the neonatal intestine. British Journal of Nutrition, 2016, 116, 1175-1187.	2.3	145
26	Toll-like Receptor 4-mediated Endoplasmic Reticulum Stress in Intestinal Crypts Induces Necrotizing Enterocolitis. Journal of Biological Chemistry, 2014, 289, 9584-9599.	3.4	141
27	Regulation of Phagosomal Acidification. Journal of Biological Chemistry, 1997, 272, 29810-29820.	3.4	139
28	The Future of Basic Science in Academic Surgery. Annals of Surgery, 2017, 265, 1053-1059.	4.2	139
29	v-SNARE-dependent secretion is required for phagocytosis. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11691-11696.	7.1	133
30	Disordered enterocyte signaling and intestinal barrier dysfunction in the pathogenesis of necrotizing enterocolitis. Seminars in Pediatric Surgery, 2005, 14, 49-57.	1.1	131
31	Endotoxin Inhibits Intestinal Epithelial Restitution through Activation of Rho-GTPase and Increased Focal Adhesions. Journal of Biological Chemistry, 2004, 279, 24592-24600.	3.4	129
32	Toll-Like Receptorâ€“Mediated Intestinal Inflammatory Imbalance in the Pathogenesis of Necrotizing Enterocolitis. Cellular and Molecular Gastroenterology and Hepatology, 2018, 6, 229-238.e1.	4.5	120
33	Synthetic small intestinal scaffolds for improved studies of intestinal differentiation. Biotechnology and Bioengineering, 2014, 111, 1222-1232.	3.3	119
34	A Critical Role for TLR4 Induction of Autophagy in the Regulation of Enterocyte Migration and the Pathogenesis of Necrotizing Enterocolitis. Journal of Immunology, 2013, 190, 3541-3551.	0.8	115
35	New Insights Into the Pathogenesis and Treatment of Necrotizing Enterocolitis: Toll-Like Receptors and Beyond. Pediatric Research, 2011, 69, 183-188.	2.3	113
36	The human milk oligosaccharides 2â€™-fucosyllactose and 6â€™-sialyllactose protect against the development of necrotizing enterocolitis by inhibiting toll-like receptor 4 signaling. Pediatric Research, 2021, 89, 91-101.	2.3	109

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37	Enterocolitis after the surgical treatment of Hirschsprung's disease: Risk factors and financial impact. Journal of Pediatric Surgery, 1998, 33, 830-833.	1.6	108
38	Continuum Model of Collective Cell Migration in Wound Healing and Colony Expansion. Biophysical Journal, 2011, 100, 535-543.	0.5	107
39	Cellular-specific role of toll-like receptor 4 in hepatic ischemia-reperfusion injury in mice. Hepatology, 2013, 58, 374-387.	7.3	107
40	Discovery and Validation of a New Class of Small Molecule Toll-Like Receptor 4 (TLR4) Inhibitors. PLoS ONE, 2013, 8, e65779.	2.5	105
41	Lactobacillus rhamnosus HN001 decreases the severity of necrotizing enterocolitis in neonatal mice and preterm piglets: evidence in mice for a role of TLR9. American Journal of Physiology - Renal Physiology, 2014, 306, G1021-G1032.	3.4	103
42	Functional Expression of Nramp1 In Vitro in the Murine Macrophage Line RAW264.7. Infection and Immunity, 1999, 67, 2225-2232.	2.2	103
43	Necrotizing enterocolitis: Pathophysiology from a historical context. Seminars in Pediatric Surgery, 2018, 27, 11-18.	1.1	101
44	Pediatric choledochal cysts: diagnosis and current management. Pediatric Surgery International, 2017, 33, 637-650.	1.4	100
45	The development of animal models for the study of necrotizing enterocolitis. DMM Disease Models and Mechanisms, 2008, 1, 94-98.	2.4	95
46	Toll-like receptor regulation of intestinal development and inflammation in the pathogenesis of necrotizing enterocolitis. Pathophysiology, 2014, 21, 81-93.	2.2	95
47	Interferon-Î³ Inhibits Intestinal Restitution by Preventing Gap Junction Communication Between Enterocytes. Gastroenterology, 2007, 132, 2395-2411.	1.3	94
48	Mechanisms of gut barrier failure in the pathogenesis of necrotizing enterocolitis: Toll-like receptors throw the switch. Seminars in Pediatric Surgery, 2013, 22, 76-82.	1.1	94
49	A Dynamic Variation of Pulmonary ACE2 Is Required to Modulate Neutrophilic Inflammation in Response to Pseudomonas aeruginosa Lung Infection in Mice. Journal of Immunology, 2019, 203, 3000-3012.	0.8	94
50	The timing of delivery of infants with gastroschisis influences outcome. Journal of Pediatric Surgery, 2005, 40, 424-428.	1.6	92
51	Endorectal pull-through for Hirschsprung's diseaseâ€"a multicenter, long-term comparison of results: transanal vs transabdominal approach. Journal of Pediatric Surgery, 2010, 45, 1213-1220.	1.6	92
52	Nucleotide-Binding Oligomerization Domain-2 Inhibits Toll-Like Receptor-4 Signaling in the Intestinal Epithelium. Gastroenterology, 2010, 139, 904-917.e6.	1.3	90
53	Cognitive impairments induced by necrotizing enterocolitis can be prevented by inhibiting microglial activation in mouse brain. Science Translational Medicine, 2018, 10, .	12.4	89
54	The neonatal window of opportunityâ€"early priming for life. Journal of Allergy and Clinical Immunology, 2018, 141, 1212-1214.	2.9	87

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55	Lipopolysaccharide Induces Cyclooxygenase-2 in Intestinal Epithelium via a Noncanonical p38 MAPK Pathway. Journal of Immunology, 2006, 176, 580-588.	0.8	86
56	Intestinal stem cell growth and differentiation on a tubular scaffold with evaluation in small and large animals. Regenerative Medicine, 2016, 11, 45-61.	1.7	81
57	Intracellular Heat Shock Protein-70 Negatively Regulates TLR4 Signaling in the Newborn Intestinal Epithelium. Journal of Immunology, 2012, 188, 4543-4557.	0.8	80
58	Animal models of gastrointestinal and liver diseases. Animal models of necrotizing enterocolitis: pathophysiology, translational relevance, and challenges. American Journal of Physiology - Renal Physiology, 2014, 306, G917-G928.	3.4	79
59	Increased expression and function of integrins in enterocytes by endotoxin impairs epithelial restitution. Gastroenterology, 2005, 128, 1012-1022.	1.3	78
60	Mucosa-Associated Bacterial Diversity in Necrotizing Enterocolitis. PLoS ONE, 2014, 9, e105046.	2.5	76
61	A Roadmap for Aspiring Surgeon-Scientists in Today's Healthcare Environment. Annals of Surgery, 2019, 269, 66-72.	4.2	74
62	Granulocytic differentiation of HL-60 cells results in spontaneous apoptosis mediated by increased caspase expression. FEBS Letters, 1997, 412, 603-609.	2.8	72
63	Genetic and Pharmacologic Manipulation of TLR4 Has Minimal Impact on Ethanol Consumption in Rodents. Journal of Neuroscience, 2017, 37, 1139-1155.	3.6	72
64	The role of the glutathione antioxidant system in gut barrier failure in a rodent model of experimental necrotizing enterocolitis. Surgery, 2004, 136, 557-566.	1.9	71
65	Innate Immune Signaling in the Pathogenesis of Necrotizing Enterocolitis. Clinical and Developmental Immunology, 2013, 2013, 1-10.	3.3	68
66	Factors influencing survival in newborns with congenital diaphragmatic hernia: the relative role of timing of surgery. Journal of Pediatric Surgery, 2004, 39, 821-824.	1.6	67
67	Mechanisms of nitric oxide-mediated intestinal barrier failure in necrotizing enterocolitis. Seminars in Pediatric Surgery, 2005, 14, 159-166.	1.1	67
68	All-terrain vehicle rules and regulations: impact on pediatric mortality. Journal of Pediatric Surgery, 2003, 38, 1284-1286.	1.6	66
69	Extracellular High Mobility Group Box-1 (HMGB1) Inhibits Enterocyte Migration via Activation of Toll-like Receptor-4 and Increased Cell-Matrix Adhesiveness. Journal of Biological Chemistry, 2010, 285, 4995-5002.	3.4	66
70	Peroxisome Proliferator-activated Receptor-Î³ Coactivator 1-Î± (PGC1Î±) Protects against Experimental Murine Colitis. Journal of Biological Chemistry, 2016, 291, 10184-10200.	3.4	65
71	Intestinal Epithelial TLR-4 Activation Is Required for the Development of Acute Lung Injury after Trauma/Hemorrhagic Shock via the Release of HMGB1 from the Gut. Journal of Immunology, 2015, 194, 4931-4939.	0.8	64
72	A Novel Role for Necroptosis in the Pathogenesis of Necrotizing Enterocolitis. Cellular and Molecular Gastroenterology and Hepatology, 2020, 9, 403-423.	4.5	64

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73	Cellular, Biochemical, and Clinical Aspects of Wound Healing. Surgical Infections, 2002, 3, s23-s35.	1.4	63
74	New insights into necrotizing enterocolitis: From laboratory observation to personalized prevention and treatment. Journal of Pediatric Surgery, 2019, 54, 398-404.	1.6	63
75	Primary vs delayed surgery for spontaneous pneumothorax in children: which is better?. Journal of Pediatric Surgery, 2005, 40, 166-169.	1.6	62
76	HMGB1-Driven Inflammation and Intimal Hyperplasia After Arterial Injury Involves Cell-Specific Actions Mediated by TLR4. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2579-2593.	2.4	62
77	Snow-related recreational injuries in children: Assessment of morbidity and management strategies. Journal of Pediatric Surgery, 1999, 34, 65-69.	1.6	60
78	Interleukin-1 Increases Vacuolar-type H+-ATPase Activity in Murine Peritoneal Macrophages. Journal of Biological Chemistry, 1996, 271, 2005-2011.	3.4	58
79	Bench to bedside â€" new insights into the pathogenesis of necrotizing enterocolitis. Nature Reviews Gastroenterology and Hepatology, 2022, 19, 468-479.	17.8	58
80	Nitric oxide inhibits enterocyte migration through activation of RhoA-GTPase in a SHP-2-dependent manner. American Journal of Physiology - Renal Physiology, 2007, 292, G1347-G1358.	3.4	57
81	Genetic Deletion of Toll-Like Receptor 4 on Platelets Attenuates Experimental Pulmonary Hypertension. Circulation Research, 2014, 114, 1596-1600.	4.5	56
82	Prostaglandin-dependent modulation of dopaminergic neurotransmission elicits inflammation-induced aversion in mice. Journal of Clinical Investigation, 2015, 126, 695-705.	8.2	56
83	Comparative Analysis of Chest Tube Thoracostomy and Video-Assisted Thoracoscopic Surgery in Empyema and Parapneumonic Effusion Associated with Pneumonia in Children. Surgical Infections, 2008, 9, 317-323.	1.4	55
84	Evidence-based feeding strategies before and after the development of necrotizing enterocolitis. Expert Review of Clinical Immunology, 2014, 10, 875-884.	3.0	55
85	Microscale Bioreactors for in situ characterization of GI epithelial cell physiology. Scientific Reports, 2017, 7, 12515.	3.3	55
86	Novel Role for the Innate Immune Receptor Toll-Like Receptor 4 (TLR4) in the Regulation of the Wnt Signaling Pathway and Photoreceptor Apoptosis. PLoS ONE, 2012, 7, e36560.	2.5	55
87	Role of COPI in Phagosome Maturation. Journal of Biological Chemistry, 2000, 275, 15717-15727.	3.4	52
88	Single-stage repair of Hirschsprung's disease: A comparison of 109 patients over 5 years. Journal of Pediatric Surgery, 1997, 32, 1028-1032.	1.6	51
89	High-mobility group box 1 protein is an inflammatory mediator in necrotizing enterocolitis: protective effect of the macrophage deactivator semapimod. American Journal of Physiology - Renal Physiology, 2005, 289, G643-G652.	3.4	51
90	Toll-Like Receptor 4 Regulates Platelet Function and Contributes to Coagulation Abnormality and Organ Injury in Hemorrhagic Shock and Resuscitation. Circulation: Cardiovascular Genetics, 2014, 7, 615-624.	5.1	51

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91	Diagnosis and outcome of Hirschsprungâ€™s disease: does age really matter?. Pediatric Surgery International, 2004, 20, 319-322.	1.4	49
92	Age-dependent regulation of SARS-CoV-2 cell entry genes and cell death programs correlates with COVID-19 severity. Science Advances, 2021, 7, .	10.3	49
93	Necrotizing enterocolitis induces T lymphocyteâ€“mediated injury in the developing mammalian brain. Science Translational Medicine, 2021, 13, .	12.4	48
94	The influence of Downâ€™s syndrome on the management and outcome of children with Hirschsprungâ€™s disease. Journal of Pediatric Surgery, 2003, 38, 946-949.	1.6	44
95	The role of innate immune-stimulated epithelial apoptosis during gastrointestinal inflammatory diseases. Cellular and Molecular Life Sciences, 2011, 68, 3623-3634.	5.4	43
96	Maternal aryl hydrocarbon receptor activation protects newborns against necrotizing enterocolitis. Nature Communications, 2021, 12, 1042.	12.8	42
97	Toll-like receptor 4 plays a role in macrophage phagocytosis during peritoneal sepsis. Journal of Pediatric Surgery, 2007, 42, 927-933.	1.6	41
98	Embryonic mouse blood flow and oxygen correlate with early pancreatic differentiation. Developmental Biology, 2011, 349, 342-349.	2.0	41
99	Myocardial oxidative stress correlates with left ventricular dysfunction on strain echocardiography in a rodent model of sepsis. Intensive Care Medicine Experimental, 2017, 5, 21.	1.9	41
100	A Patient With an Epignathus: Management of a Large Oropharyngeal Teratoma in a Newborn. Journal of Craniofacial Surgery, 2003, 14, 468-472.	0.7	40
101	Intestinal Stem Cells and Their Roles During Mucosal Injury and Repair. Journal of Surgical Research, 2011, 167, 1-8.	1.6	39
102	Systemic Inflammation and Liver Injury Following Hemorrhagic Shock and Peripheral Tissue Trauma Involve Functional TLR9 Signaling on Bone Marrow-Derived Cells and Parenchymal Cells. Shock, 2011, 35, 164-170.	2.1	39
103	Pulmonary Epithelial TLR4 Activation Leads to Lung Injury in Neonatal Necrotizing Enterocolitis. Journal of Immunology, 2016, 197, 859-871.	0.8	39
104	WNT1-Inducible Signaling Pathway Protein 1 Contributes to Ventilator-Induced Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 528-535.	2.9	38
105	Innate Sensing through Mesenchymal TLR4/MyD88 Signals Promotes Spontaneous Intestinal Tumorigenesis. Cell Reports, 2019, 26, 536-545.e4.	6.4	38
106	A Role for Connexin43 in Macrophage Phagocytosis and Host Survival after Bacterial Peritoneal Infection. Journal of Immunology, 2008, 181, 8534-8543.	0.8	37
107	Inhibition of amiloride-sensitive sodium-channel activity in distal lung epithelial cells by nitric oxide. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L378-L387.	2.9	36
108	Utility of radiographic hepatic injury grade in predicting outcome for children after blunt abdominal trauma. Journal of Pediatric Surgery, 2002, 37, 386-389.	1.6	36

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109	How low can you go? Effectiveness and safety of extracorporeal membrane oxygenation in low-birth-weight neonates. Journal of Pediatric Surgery, 2004, 39, 845-847.	1.6	35
110	Hypertrophic pyloric stenosis in newborns younger than 21 days: remodeling the path of surgical intervention. Journal of Pediatric Surgery, 2008, 43, 998-1001.	1.6	35
111	Retinoic Acid Improves Incidence and Severity of Necrotizing Enterocolitis by Lymphocyte Balance Restitution and Repopulation of LGR5+ Intestinal Stem Cells. Shock, 2017, 47, 22-32.	2.1	35
112	Toll-like receptor 4â€“mediated enteric glia loss is critical for the development of necrotizing enterocolitis. Science Translational Medicine, 2021, 13, eabg3459.	12.4	35
113	Effects of Other Intra-abdominal Injuries on the Diagnosis, Management, and Outcome of Small Bowel Trauma. Journal of Trauma, 2000, 49, 606-610.	2.3	33
114	p38 MAP kinase mediates endotoxin-induced expression of cyclooxygenase-2 in enterocytes. Surgery, 2004, 136, 329-335.	1.9	33
115	Effect of age on cervical spine injuries in children after motor vehicle collisions: effectiveness of restraint devices. Journal of Pediatric Surgery, 2004, 39, 483-486.	1.6	33
116	Tissue engineering for the treatment of short bowel syndrome in children. Pediatric Research, 2018, 83, 249-257.	2.3	32
117	Scholarly Research Projects Benefit Medical Studentsâ€™ Research Productivity and Residency Choice: Outcomes From the University of Pittsburgh School of Medicine. Academic Medicine, 2018, 93, 1727-1731.	1.6	32
118	Activated macrophages inhibit enterocyte gap junctions via the release of nitric oxide. American Journal of Physiology - Renal Physiology, 2008, 294, G109-G119.	3.4	30
119	Synthesis of anti -inflammatory Î±-and Î²-linked acetamidopyranosides as inhibitors of toll-like receptor 4 (TLR4). Tetrahedron Letters, 2015, 56, 3097-3100.	1.4	30
120	Endotoxin differentially modulates the basolateral and apical sodium/proton exchangers (NHE) in enterocytes. Surgery, 2004, 136, 375-383.	1.9	29
121	Worms, flies and four-legged friends: the applicability of biological models to the understanding of intestinal inflammatory diseases. DMM Disease Models and Mechanisms, 2011, 4, 447-456.	2.4	29
122	One-Dimensional Elastic Continuum Model of Enterocyte Layer Migration. Biophysical Journal, 2007, 93, 3745-3752.	0.5	28
123	A novel scoring system to predict the development of necrotizing enterocolitis totalis in premature infants. Journal of Pediatric Surgery, 2014, 49, 1053-1056.	1.6	28
124	Contrast-Enhanced Ultrasound and Near-Infrared Spectroscopy of the Neonatal Bowel: Novel, Bedside, Noninvasive, and Radiation-Free Imaging for Early Detection of Necrotizing Enterocolitis. American Journal of Perinatology, 2018, 35, 1358-1365.	1.4	27
125	An analysis of proctoscopy vs computed tomography scanning in the diagnosis of rectal injuries in children: which is better?. Journal of Pediatric Surgery, 2006, 41, 700-703.	1.6	26
126	DNA attenuates enterocyte Toll-like receptor 4-mediated intestinal mucosal injury after remote trauma. American Journal of Physiology - Renal Physiology, 2011, 300, G862-G873.	3.4	26

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127	Pancreatic surgery for tumors in children and adolescents. Pediatric Surgery International, 2016, 32, 779-788.	1.4	26
128	Fat composition in infant formula contributes to the severity of necrotising enterocolitis. British Journal of Nutrition, 2018, 120, 665-680.	2.3	26
129	Precision-based modeling approaches for necrotizing enterocolitis. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	26
130	An Approach to the Writing of a Scientific Manuscript1. Journal of Surgical Research, 2005, 128, 165-167.	1.6	25
131	Modeling the interactions of bacteria and Toll-like receptor-mediated inflammation in necrotizing enterocolitis. Journal of Theoretical Biology, 2013, 321, 83-99.	1.7	25
132	Interferon-Î³ inhibits enterocyte migration by reversibly displacing connexin43 from lipid rafts. American Journal of Physiology - Renal Physiology, 2008, 295, G559-G569.	3.4	24
133	Presence of pneumomediastinum after blunt trauma in children: what does it really mean?. Journal of Pediatric Surgery, 2009, 44, 1322-1327.	1.6	24
134	Toll-like Receptor 4 Signaling on Dendritic Cells Suppresses Polymorphonuclear Leukocyte CXCR2 Expression and Trafficking via Interleukin 10 During Intra-abdominal Sepsis. Journal of Infectious Diseases, 2016, 213, 1280-1288.	4.0	24
135	Solid Pseudopapillary Neoplasm of the Pancreas in a Young Pediatric Patient. Pancreas, 2018, 47, 1364-1368.	1.1	24
136	Increased expression and internalization of the endotoxin coreceptor CD14 in enterocytes occur as an early event in the development of experimental necrotizing enterocolitis. Journal of Pediatric Surgery, 2008, 43, 1175-1181.	1.6	23
137	Indirect Role for COPI in the Completion of FcÎ³ Receptor-mediated Phagocytosis. Journal of Biological Chemistry, 2001, 276, 18200-18208.	3.4	22
138	Cellular, Biochemical, and Clinical Aspects of Wound Healing. Surgical Infections, 2002, 3, 23-35.	1.4	22
139	The Ex Utero Intrapartum Treatment (EXIT) Procedure. JAMA Otolaryngology, 2006, 132, 686.	1.2	21
140	Laparoscopic Appendectomy in Children with Perforated Appendicitis. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2006, 16, 159-163.	1.0	21
141	Toll Like Receptor 4 Mediated Lymphocyte Imbalance Induces Nec-Induced Lung Injury. Shock, 2019, 52, 215-223.	2.1	21
142	Dysregulated Mucosal Immunity and Associated Pathogeneses in Preterm Neonates. Frontiers in Immunology, 2020, 11, 899.	4.8	21
143	The role of gap junctions in health and disease. Critical Care Medicine, 2005, 33, S535-S538.	0.9	19
144	Mesenteric inflammatory pseudotumor as a cause of abdominal pain in a teenager: presentation and literature review. Pediatric Surgery International, 2005, 21, 497-499.	1.4	18

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145	Migrating Cells Retain Gap Junction Plaque Structure and Function. Cell Communication and Adhesion, 2008, 15, 273-288.	1.0	18
146	INTRACELLULAR pH REGULATION IN LEUKOCYTES. Shock, 1996, 5, 17-21.	2.1	16
147	Exudative Neutrophils Show Impaired pH Regulation Compared With Circulating Neutrophils. Archives of Surgery, 1996, 131, 1296.	2.2	15
148	Development of Intestinal Scaffolds that Mimic Native Mammalian Intestinal Tissue. Tissue Engineering - Part A, 2019, 25, 1225-1241.	3.1	15
149	TLR4 Inactivation in Myeloid Cells Accelerates Bone Healing of a Calvarial Defect Model in Mice. Plastic and Reconstructive Surgery, 2017, 140, 296e-306e.	1.4	14
150	The Development of Newborn Porcine Models for Evaluation of Tissue-Engineered Small Intestine. Tissue Engineering - Part C: Methods, 2018, 24, 331-345.	2.1	14
151	A Comparison of Sterilization Techniques for Production of Decellularized Intestine in Mice. Tissue Engineering - Part C: Methods, 2020, 26, 67-79.	2.1	13
152	Bioavailability of Oral Ciprofloxacin in Early Postsurgical Patients. Archives of Surgery, 1998, 133, 1221.	2.2	11
153	H-type congenital tracheoesophageal fistula. American Journal of Surgery, 2003, 185, 599-600.	1.8	11
154	Prenatal Immunity and Influences on Necrotizing Enterocolitis and Associated Neonatal Disorders. Frontiers in Immunology, 2021, 12, 650709.	4.8	11
155	ACETAZOLAMIDE TREATMENT PREVENTS IN VITRO ENDOTOXINSTIMULATED TUMOR NECROSIS FACTOR RELEASE IN MOUSE MACROPHAGES. Shock, 1998, 10, 436-441.	2.1	10
156	Mechanisms of Pediatric Trauma Deaths in Canada and the United States: The Role of Firearms. Journal of Trauma, 2004, 56, 1286-1290.	2.3	10
157	Using a continuum model to predict closure time of gaps in intestinal epithelial cell layers. Wound Repair and Regeneration, 2013, 21, 256-265.	3.0	10
158	Early detection of necrotizing enterocolitis using broadband optical spectroscopy. Journal of Pediatric Surgery, 2018, 53, 1192-1196.	1.6	10
159	Acute Severe Acute Respiratory Syndrome Coronavirus 2 Infection in Pregnancy Is Associated with Placental Angiotensin-Converting Enzyme 2 Shedding. American Journal of Pathology, 2022, 192, 595-603.	3.8	10
160	Interleukin 22 disrupts pancreatic function in newborn mice expressing IL-23. Nature Communications, 2019, 10, 4517.	12.8	8
161	The recruitment of extra-intestinal cells to the injured mucosa promotes healing in radiation enteritis and chemical colitis in a mouse parabiosis model. Mucosal Immunology, 2019, 12, 503-517.	6.0	8
162	Generation of an artificial intestine for the management of short bowel syndrome. Current Opinion in Organ Transplantation, 2016, 21, 178-185.	1.6	7

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163	The Pediatric Surgeonâ€“Scientist: Succeeding in Today's Academic Environment. Journal of Surgical Research, 2019, 244, 502-508.	1.6	7
164	Generating an Artificial Intestine for the Treatment of Short Bowel Syndrome. Gastroenterology Clinics of North America, 2019, 48, 585-605.	2.2	7
165	Normative values for circulating intestinal fatty acid binding protein and calprotectin across gestational ages. BMC Pediatrics, 2020, 20, 250.	1.7	7
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